

Fig. 1

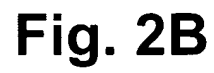
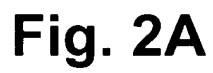
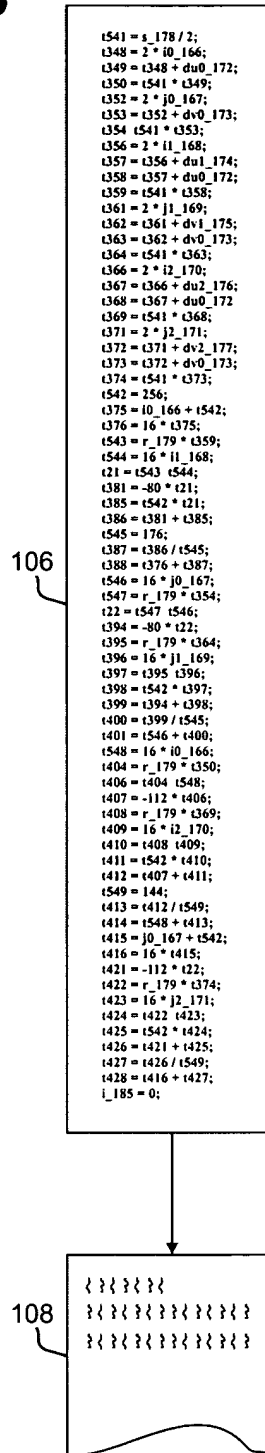
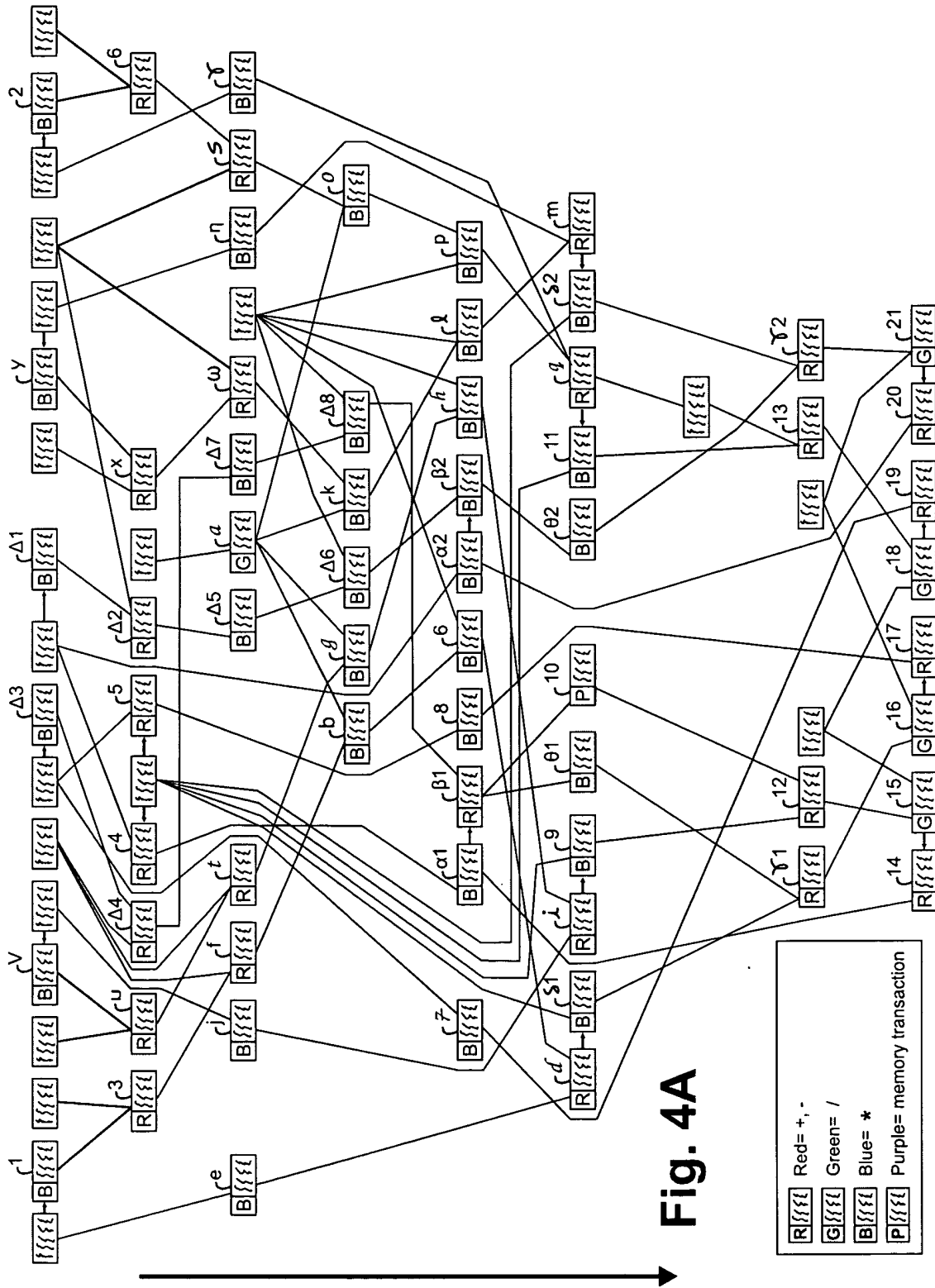


Fig. 3





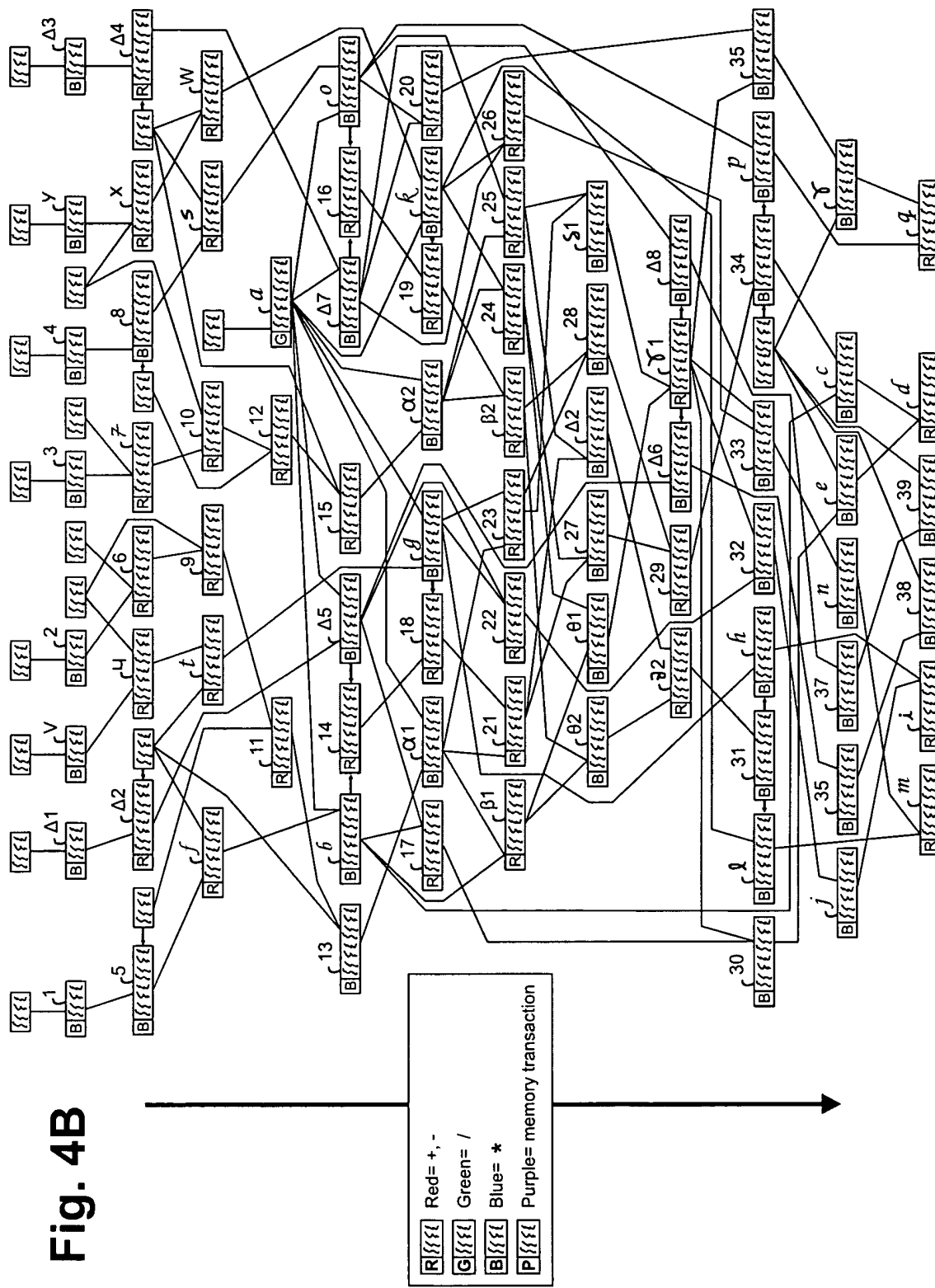
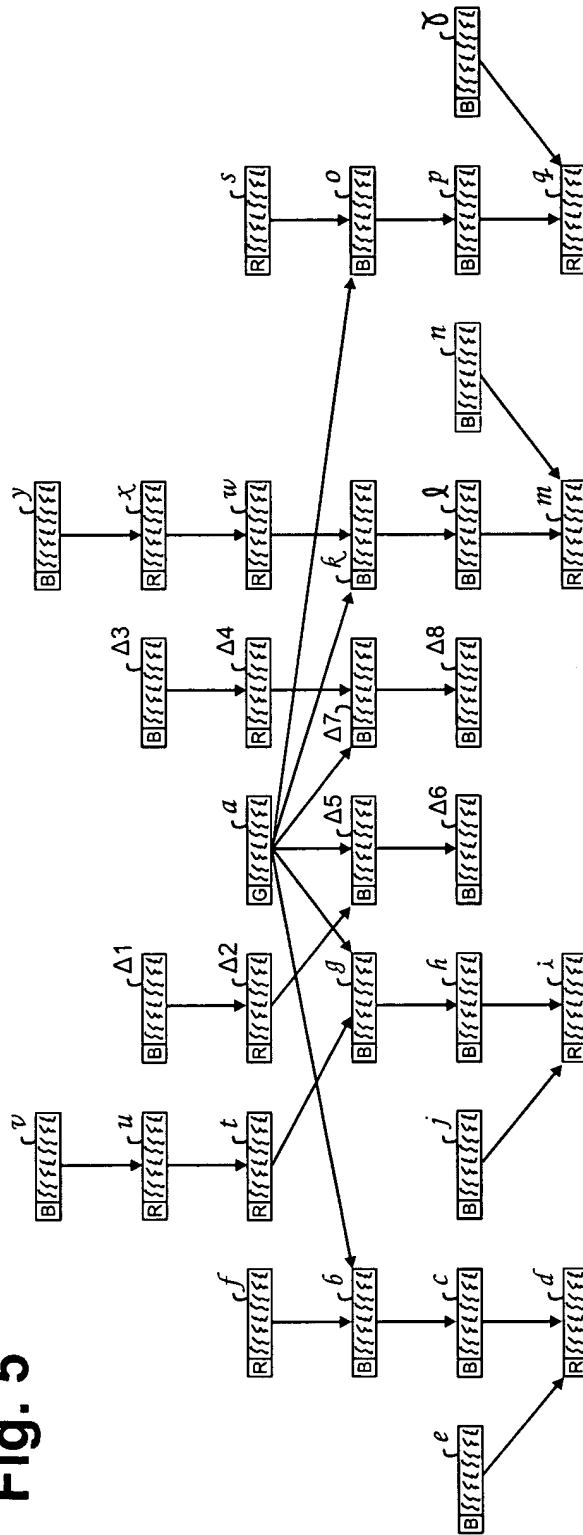


Fig. 5



Red= +, -
Green= /
Blue= *
Purple= memory transaction

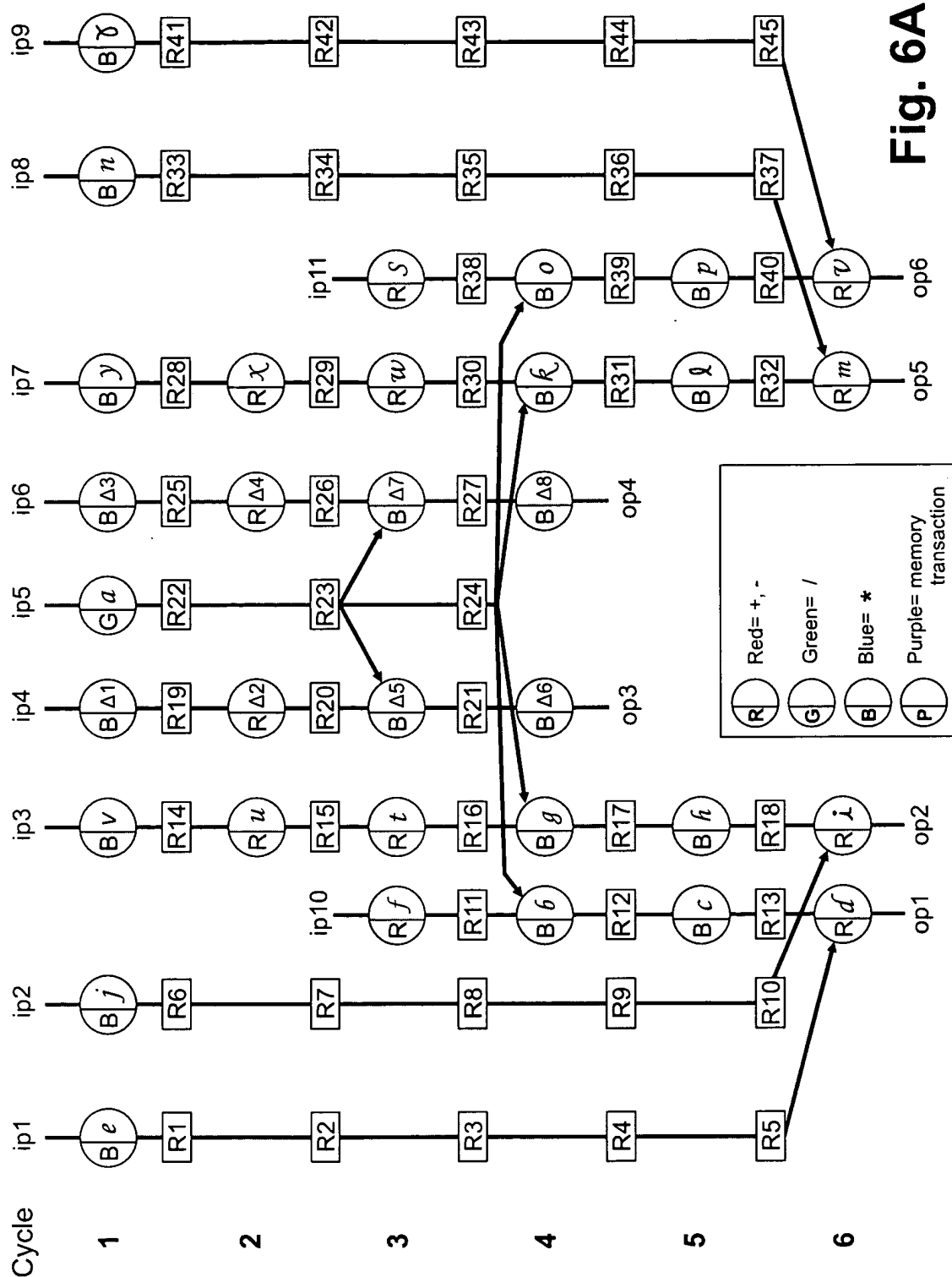


Fig. 6B

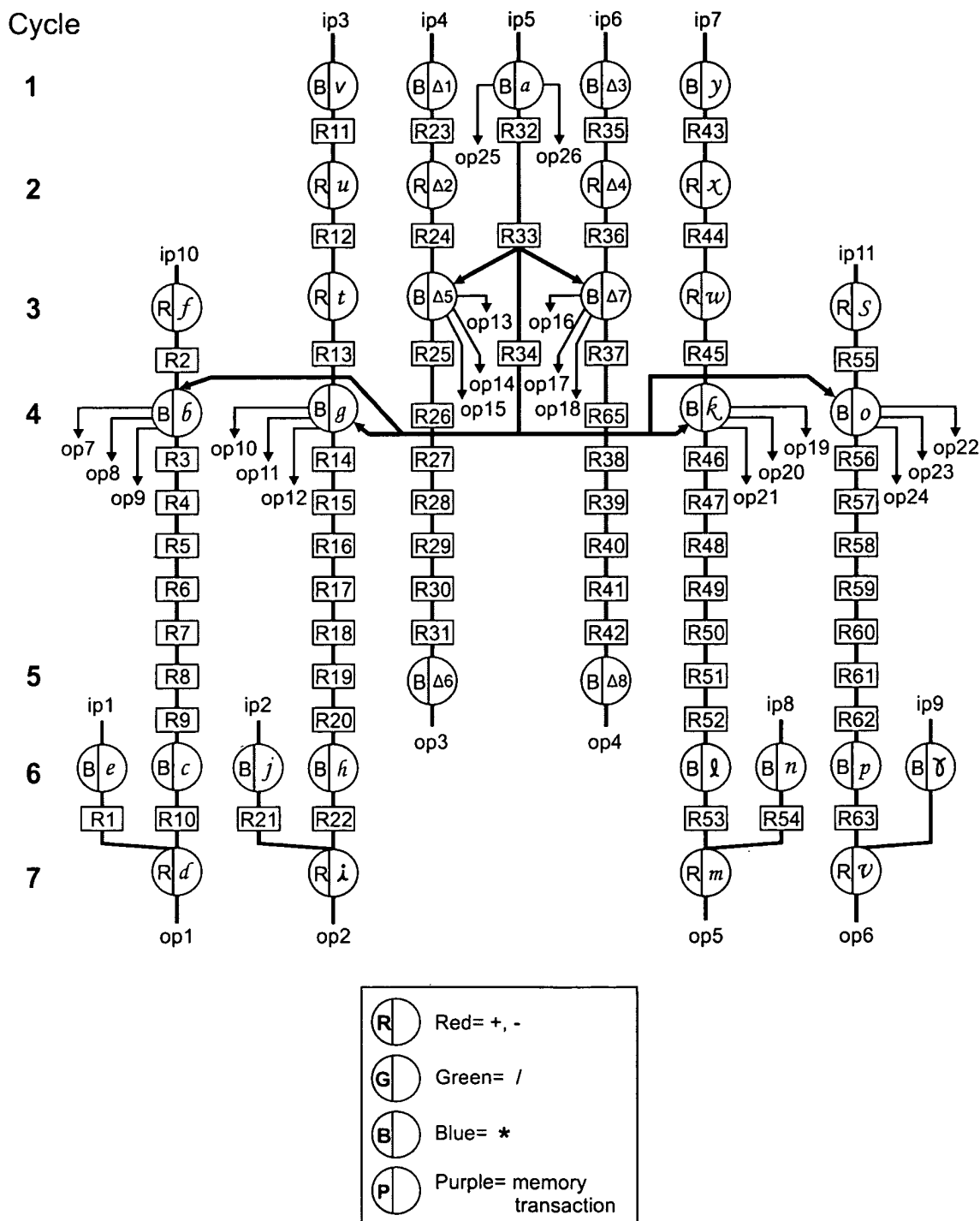


Fig. 7

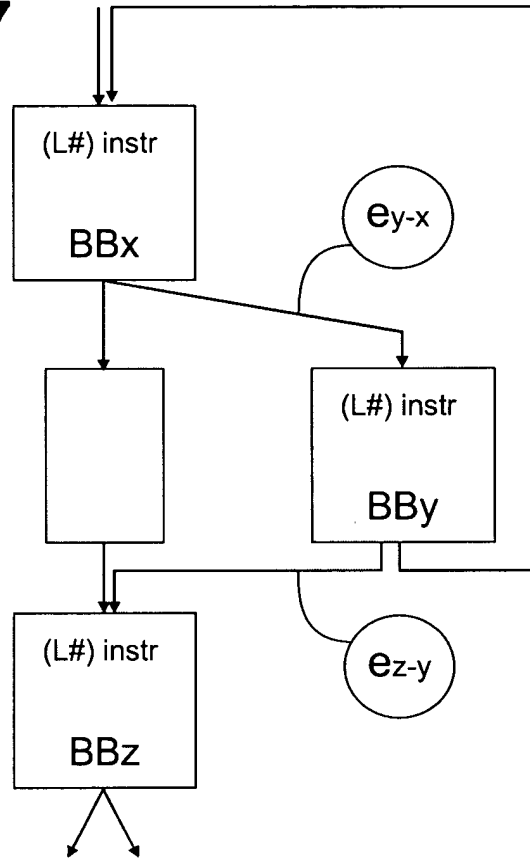


Fig. 8

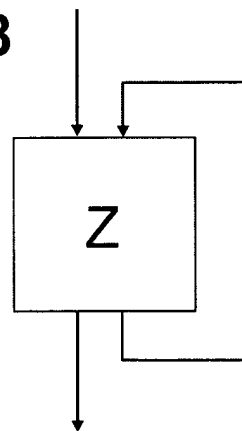


Fig. 9A

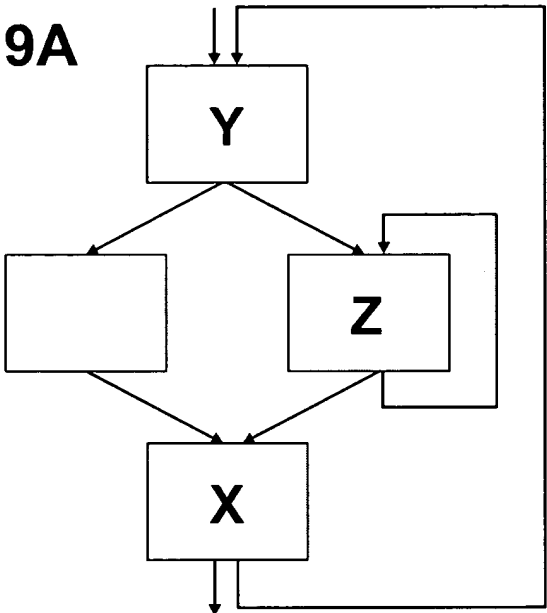


Fig. 9B

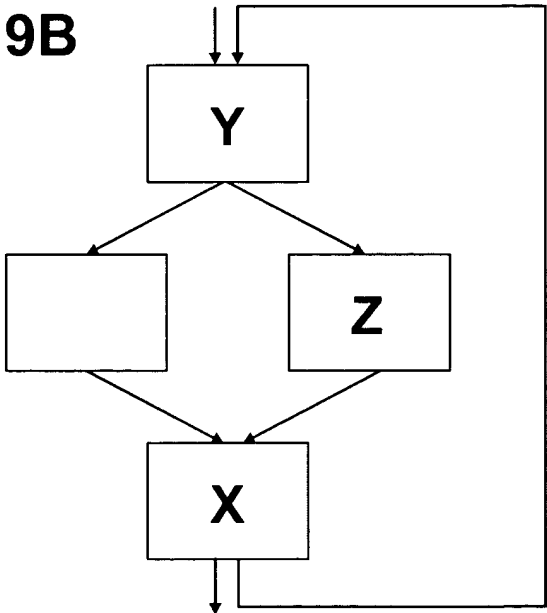


Fig. 10

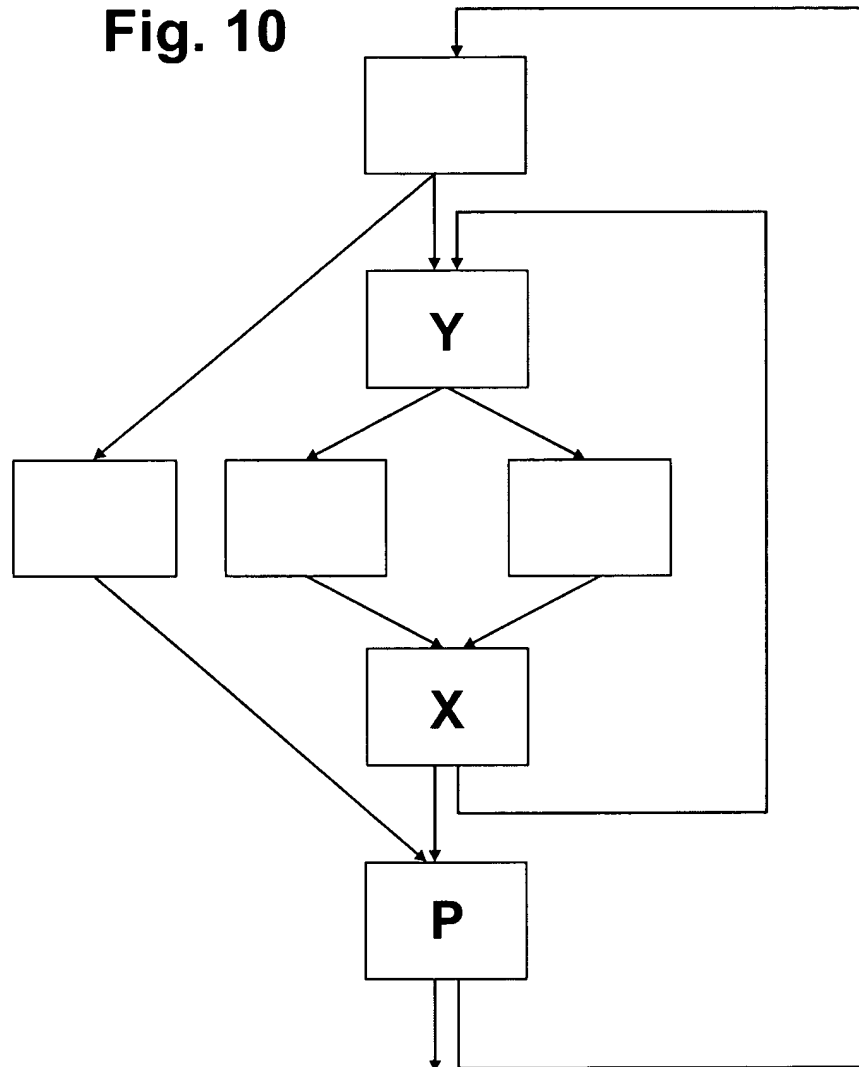


Fig. 11

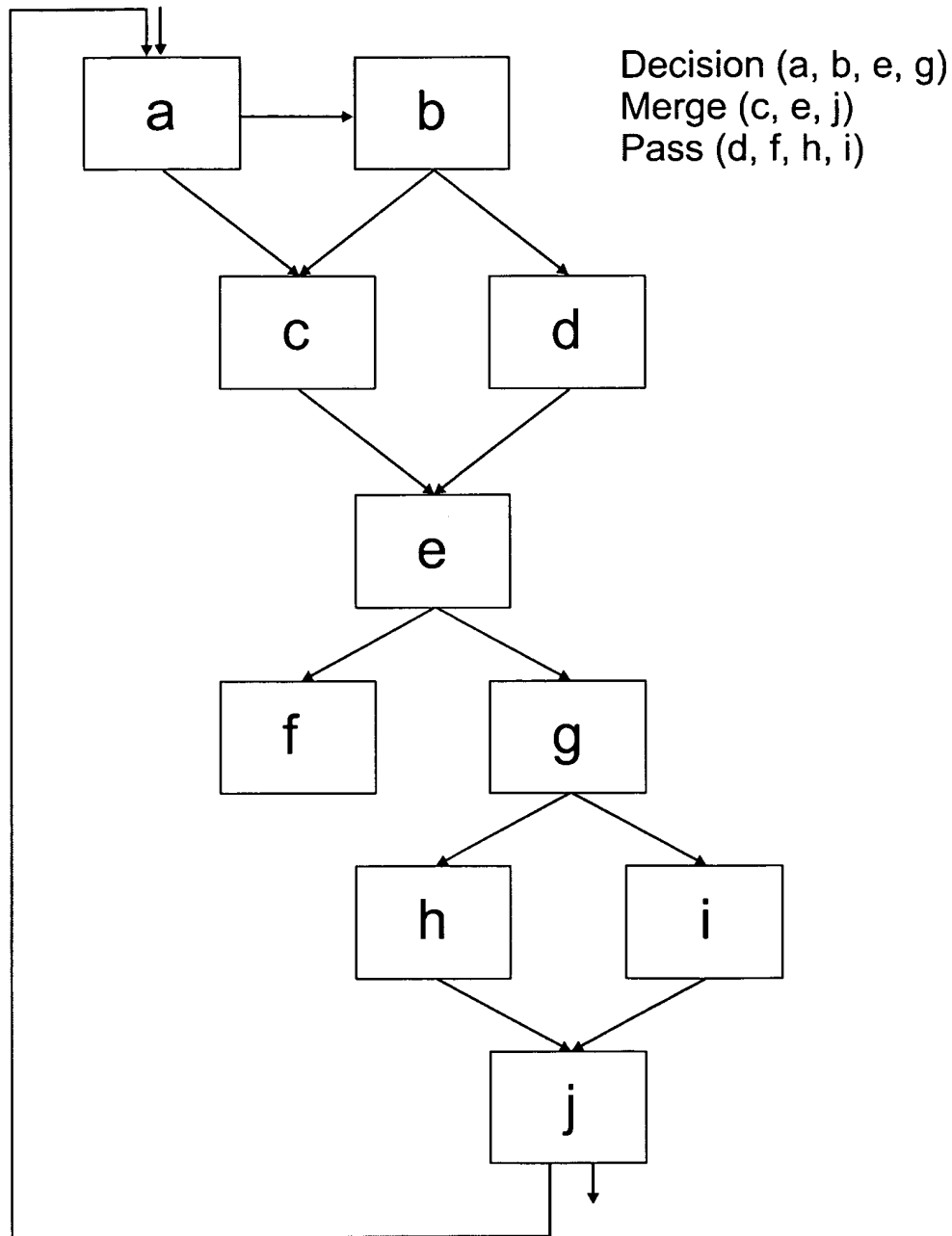


Fig. 12

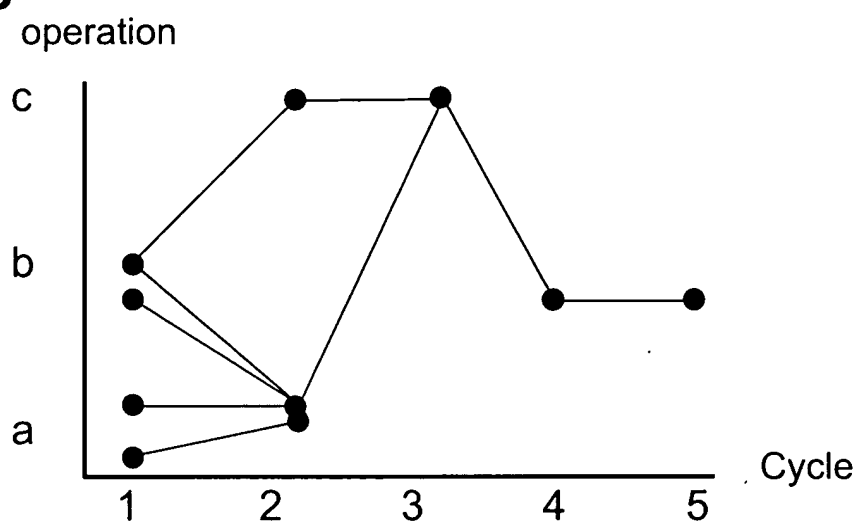


Fig. 12A

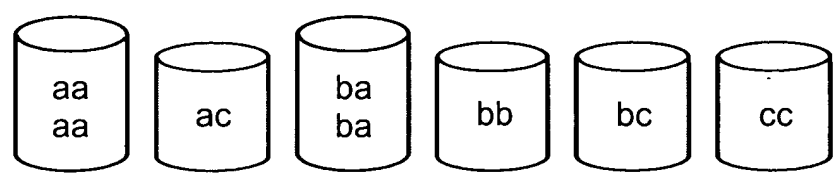


Fig. 13

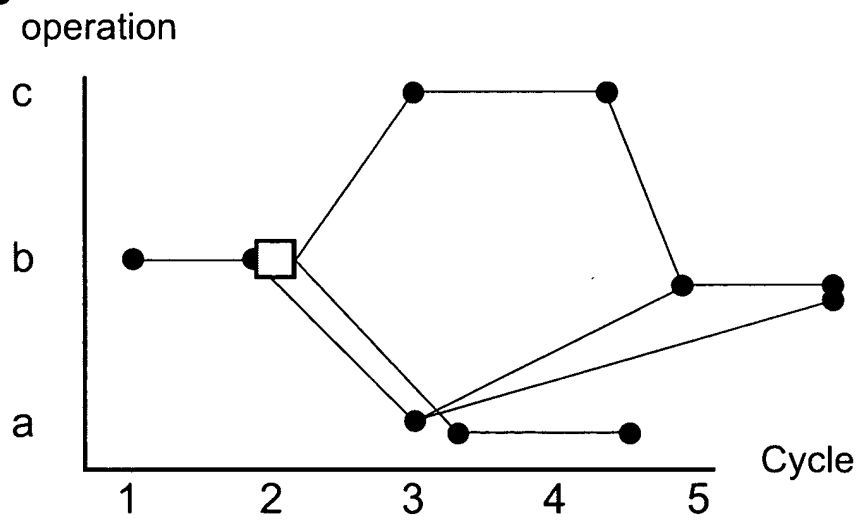


Fig. 13A

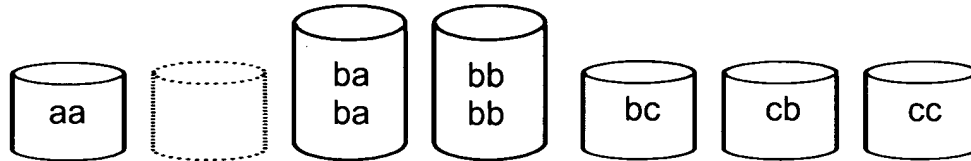


Fig. 14A

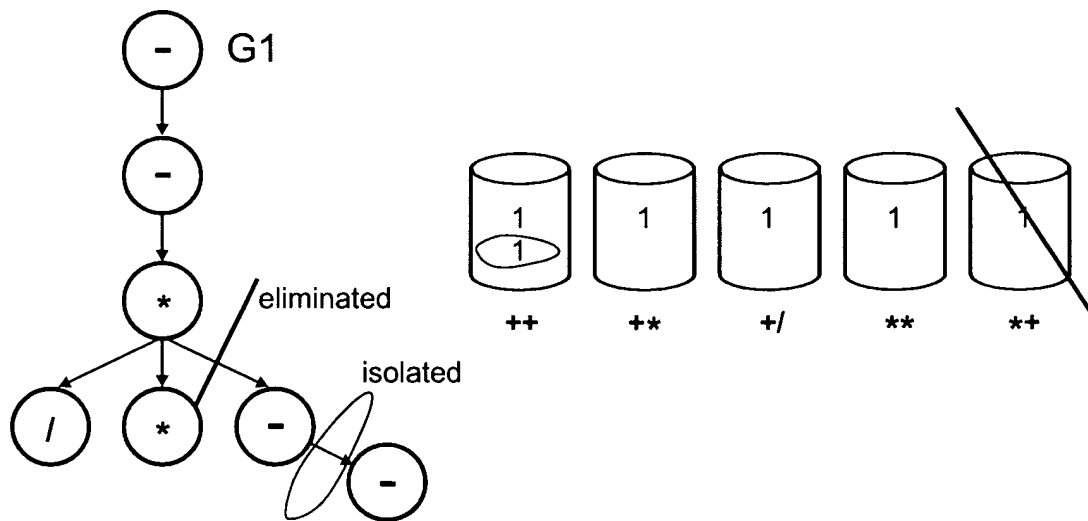


Fig. 14B

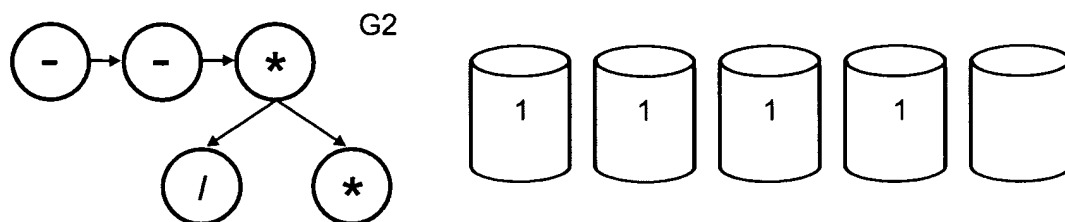


Fig. 15

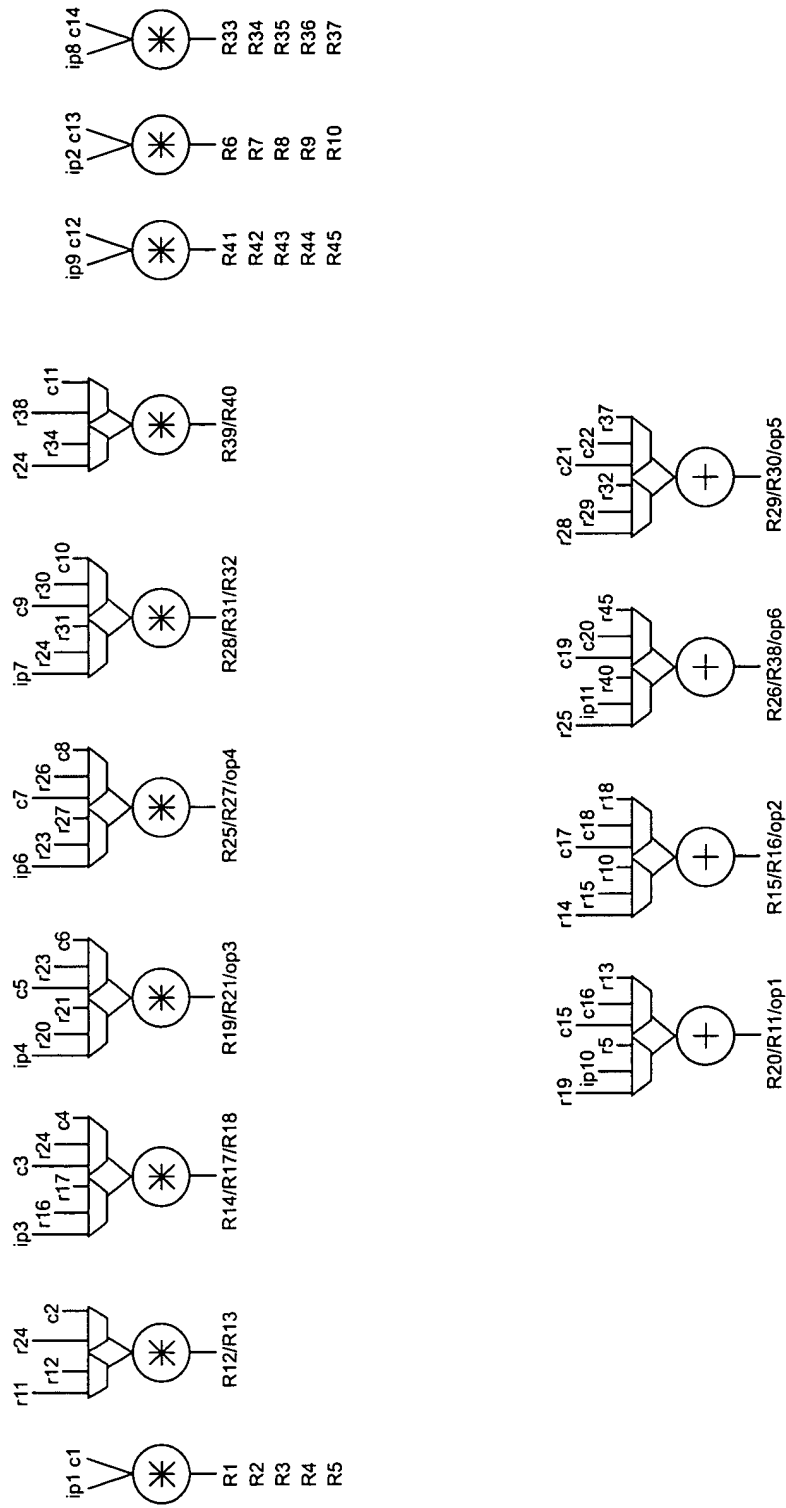


Fig. 16

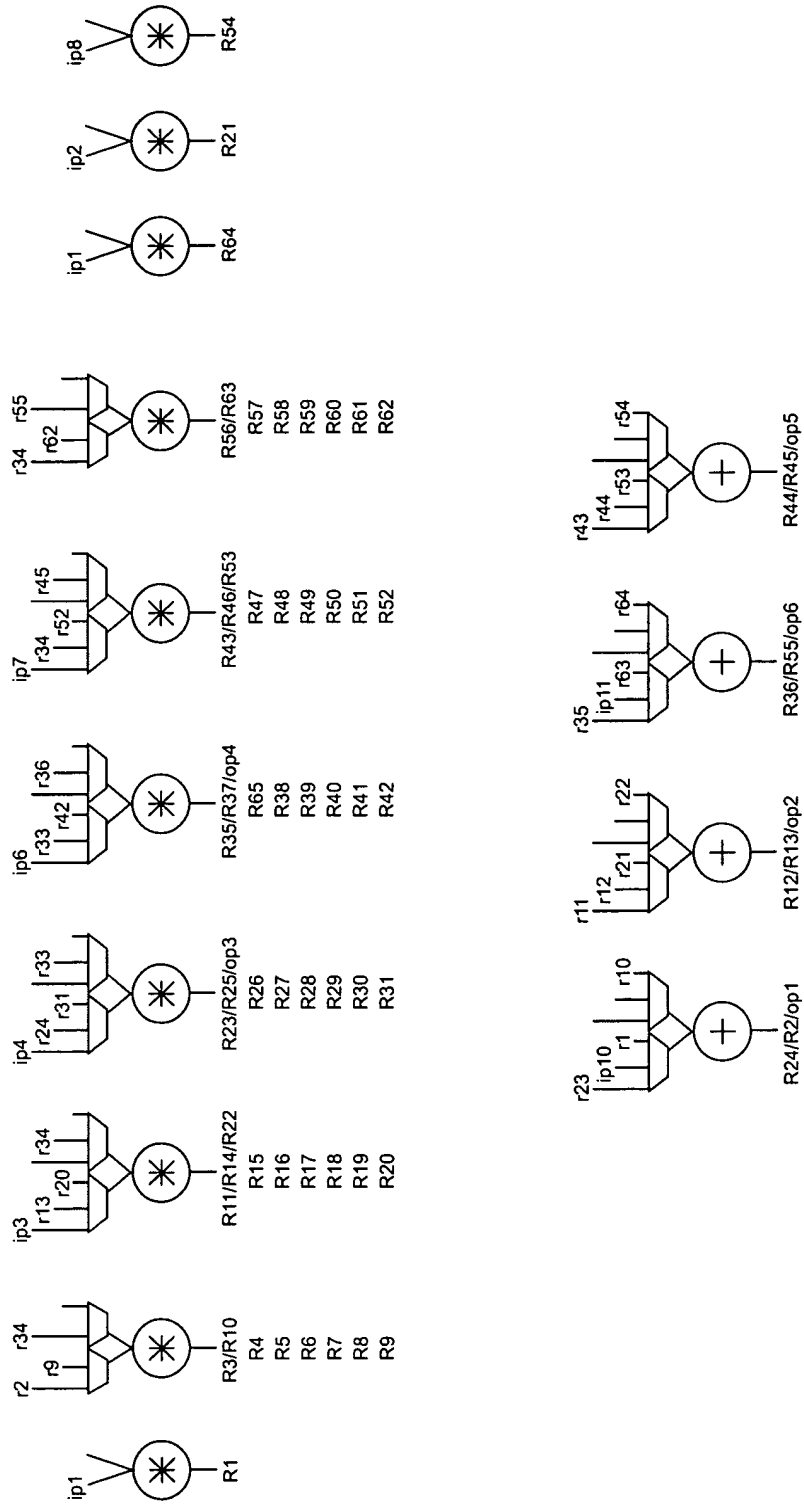


Fig. 17

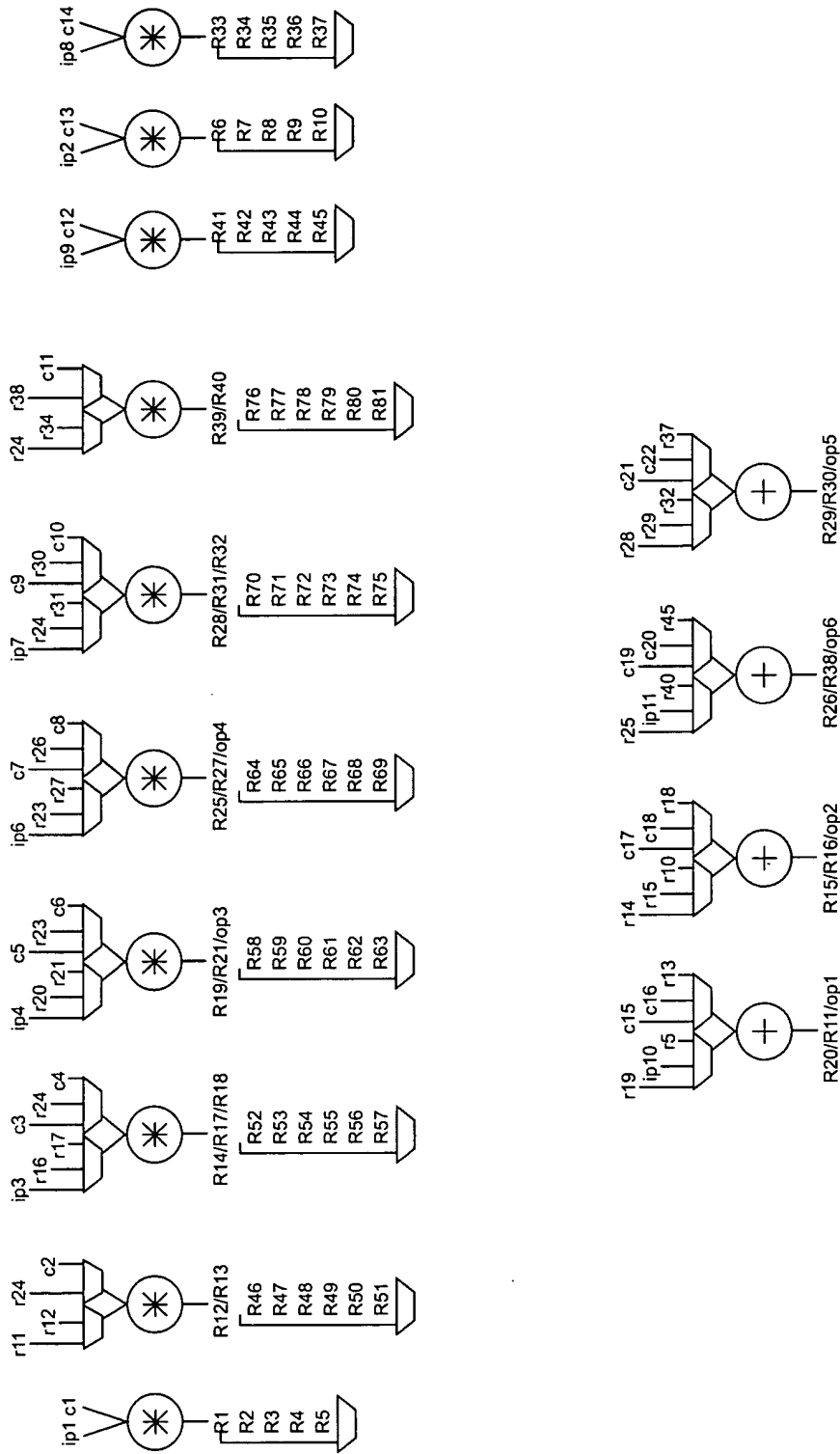


Fig. 18

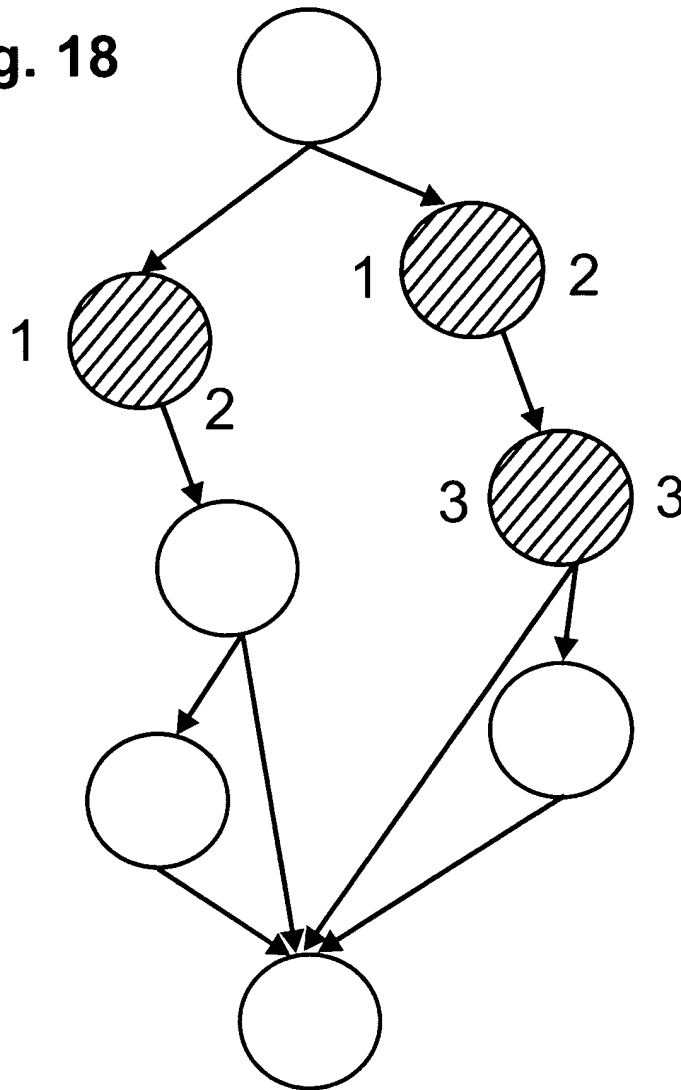


Fig. 19

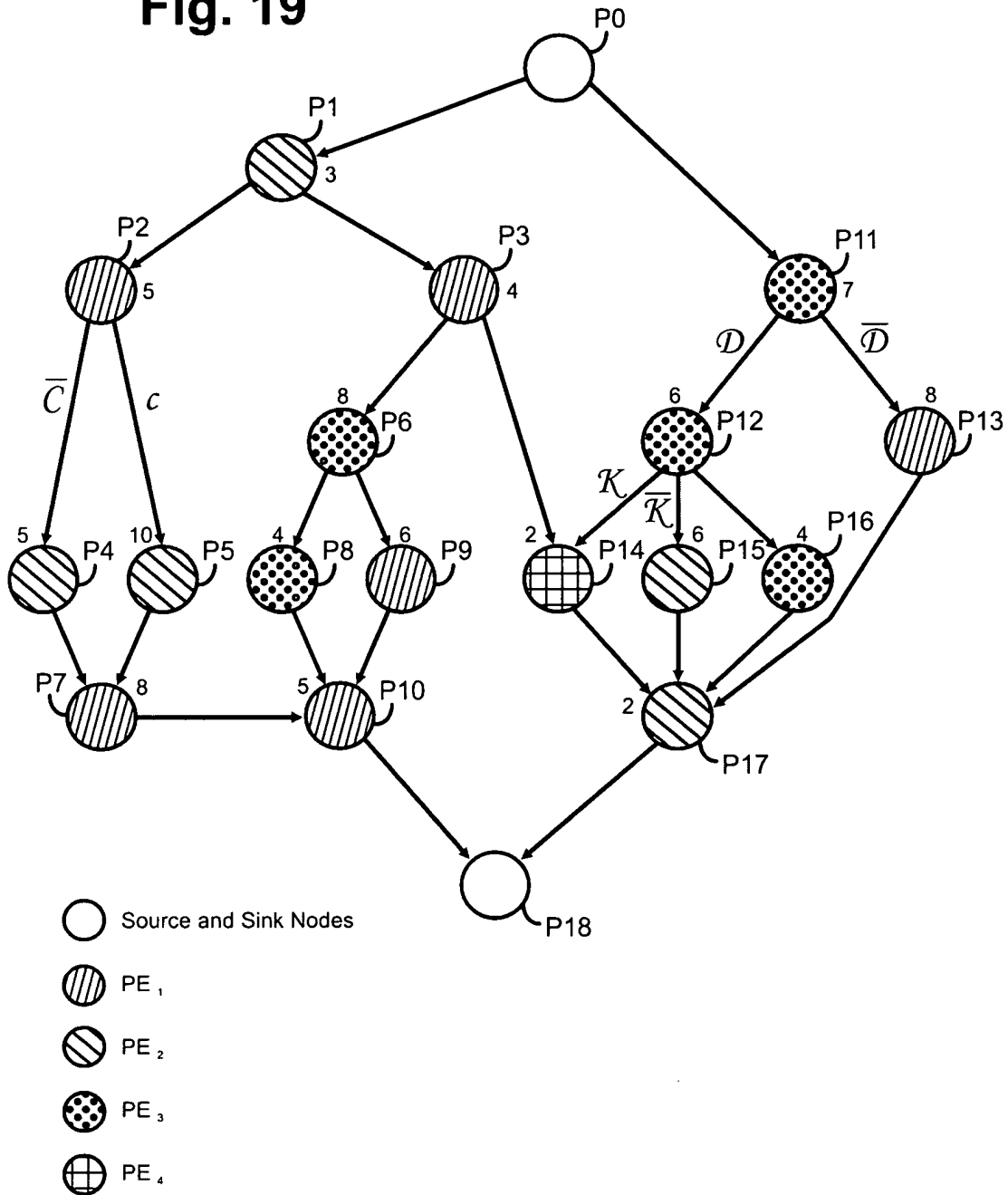


Fig. 20

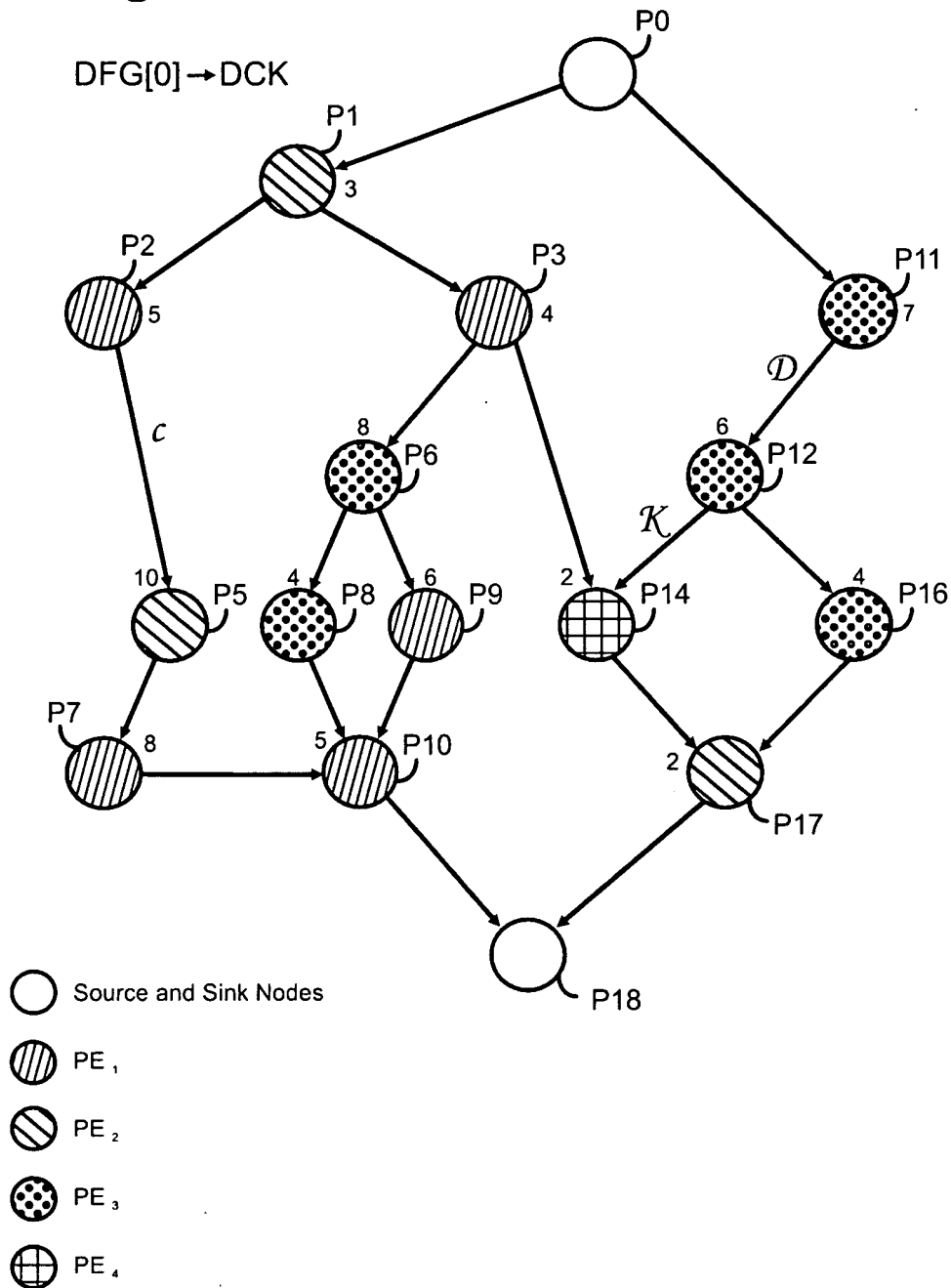


Fig. 21

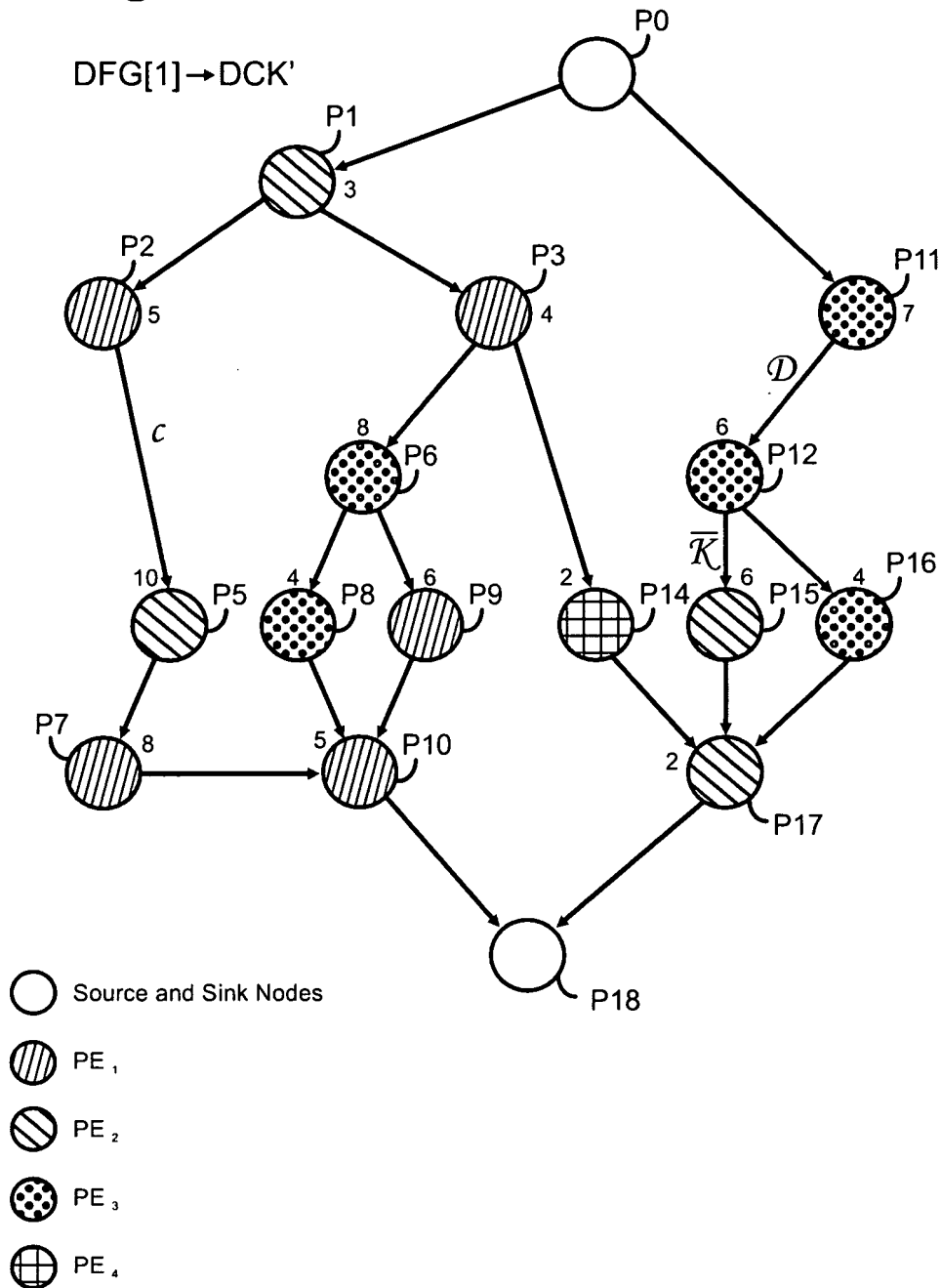


Fig. 22

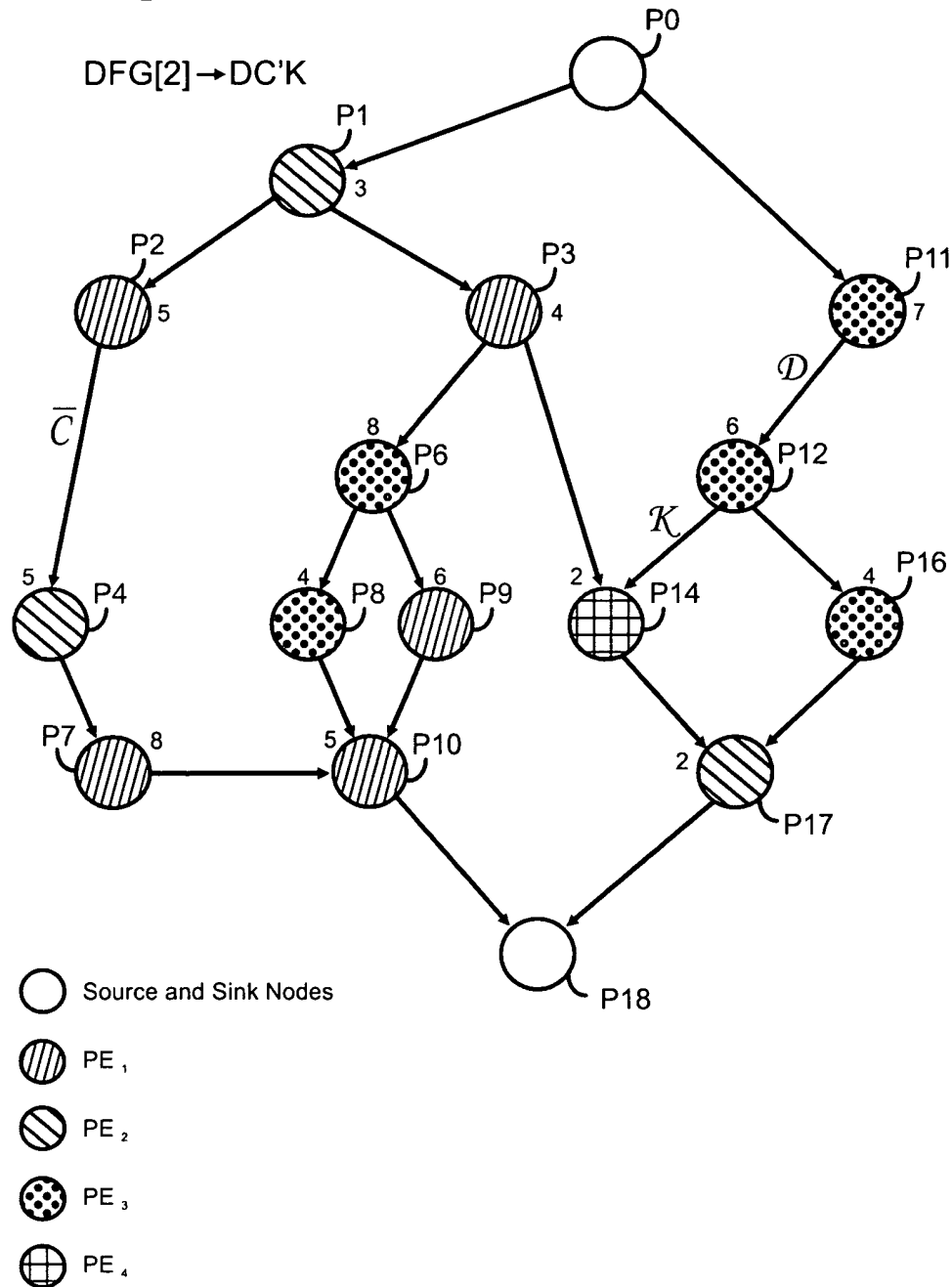


Fig. 23

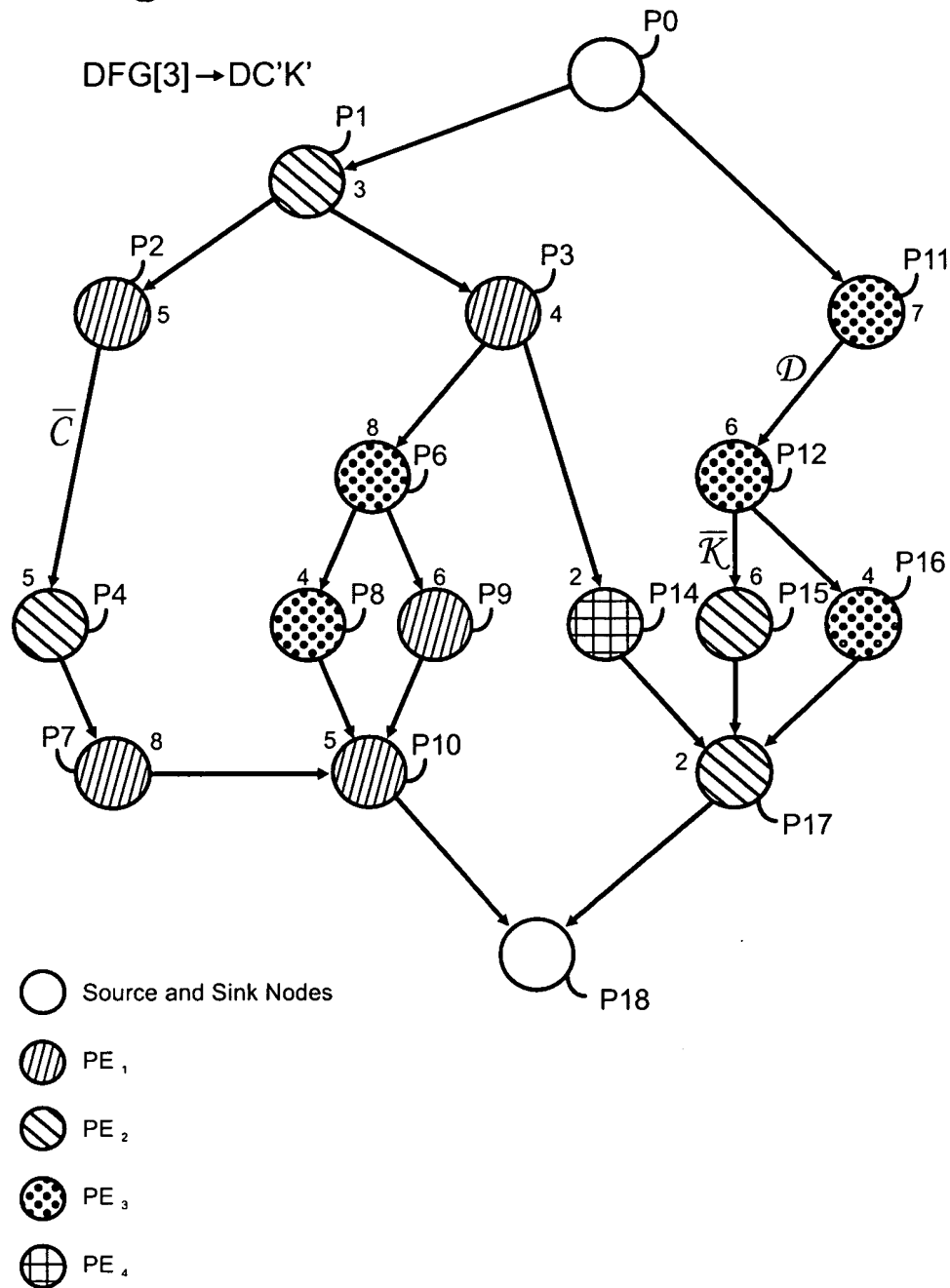


Fig. 24.

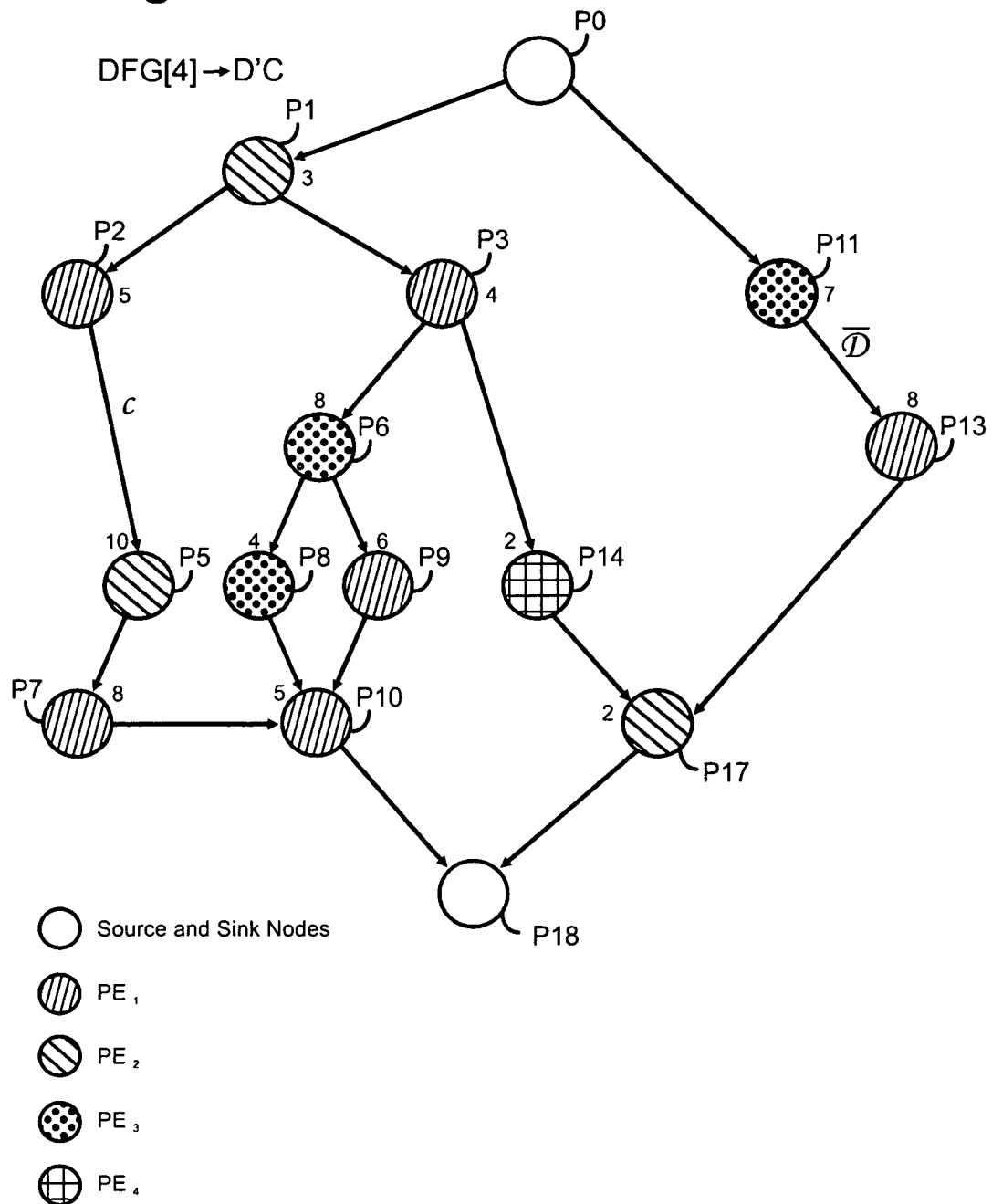


Fig. 25

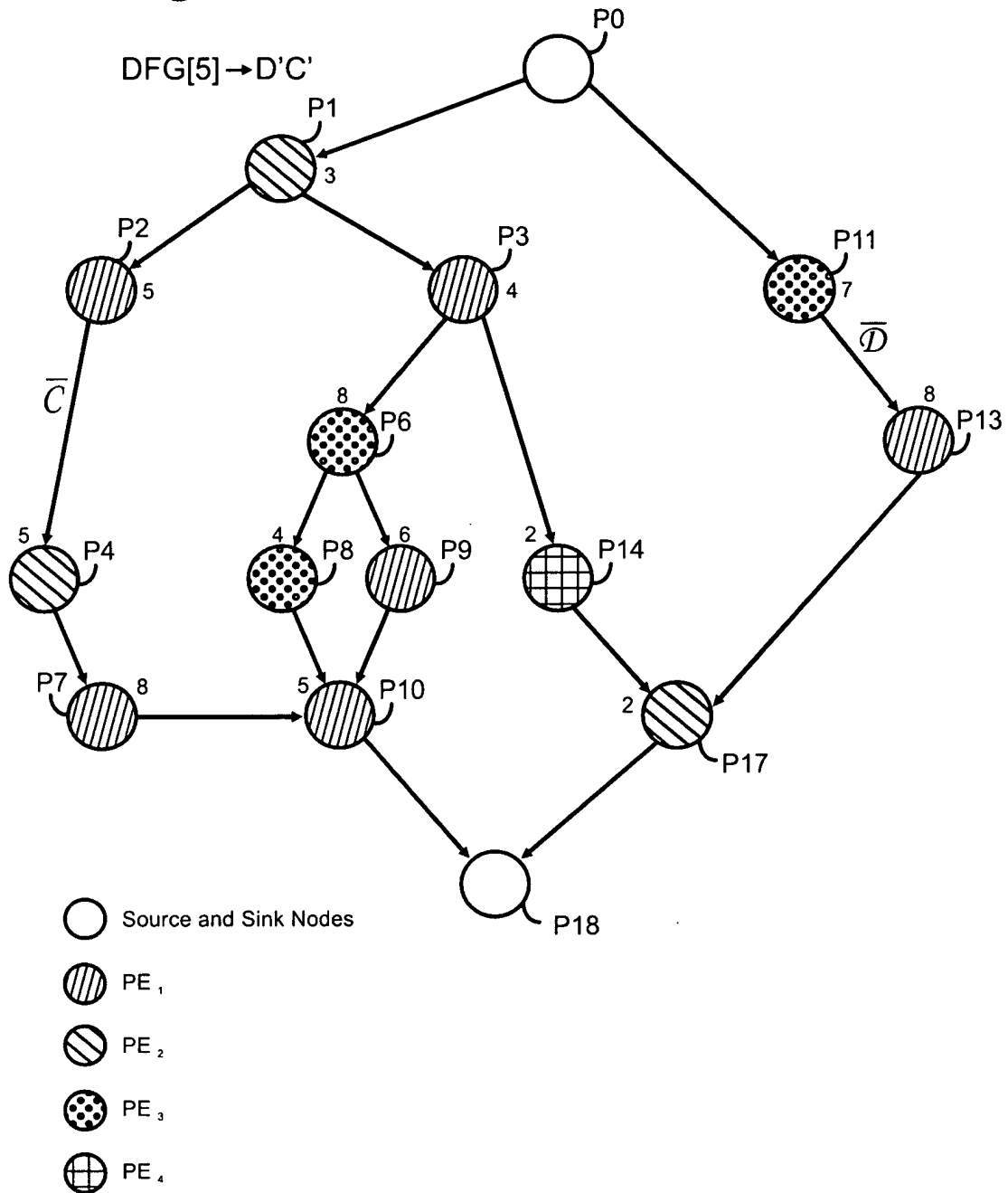


Fig. 26

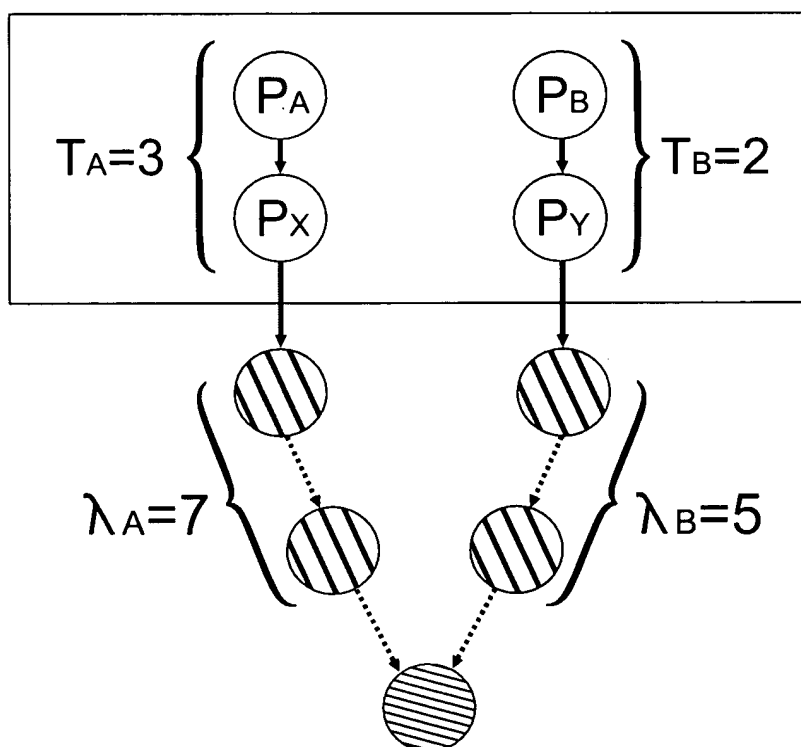


Fig. 27

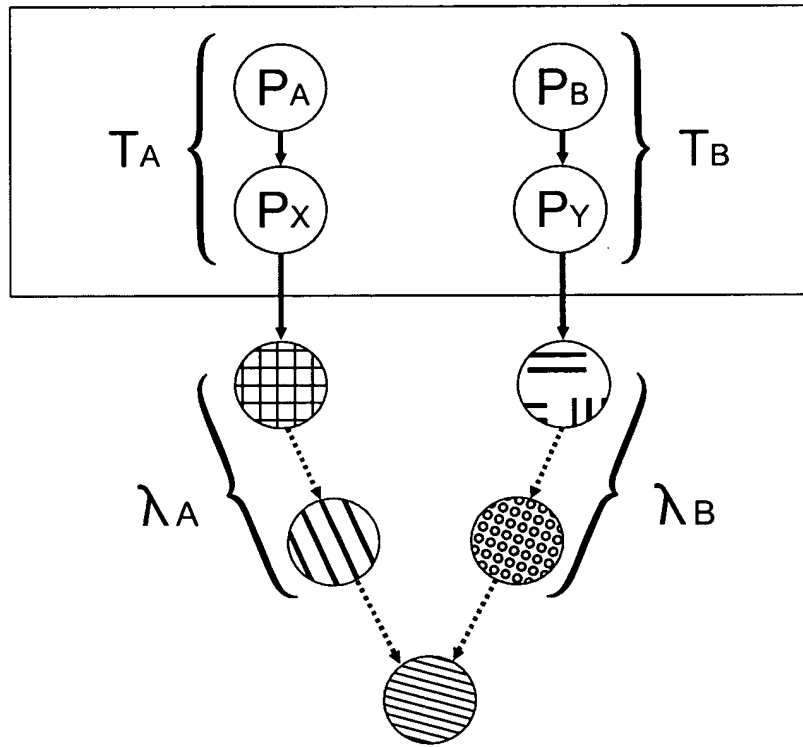


Fig. 28

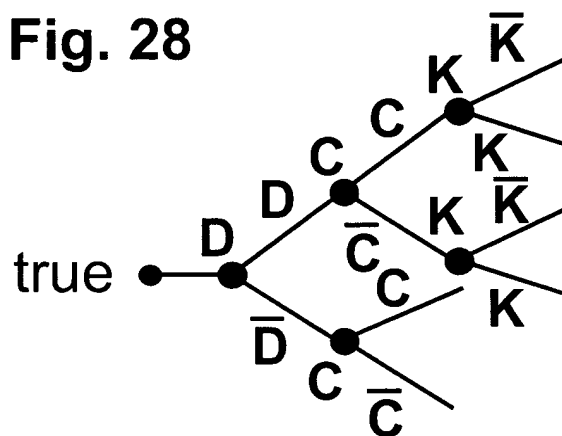


Fig. 29A

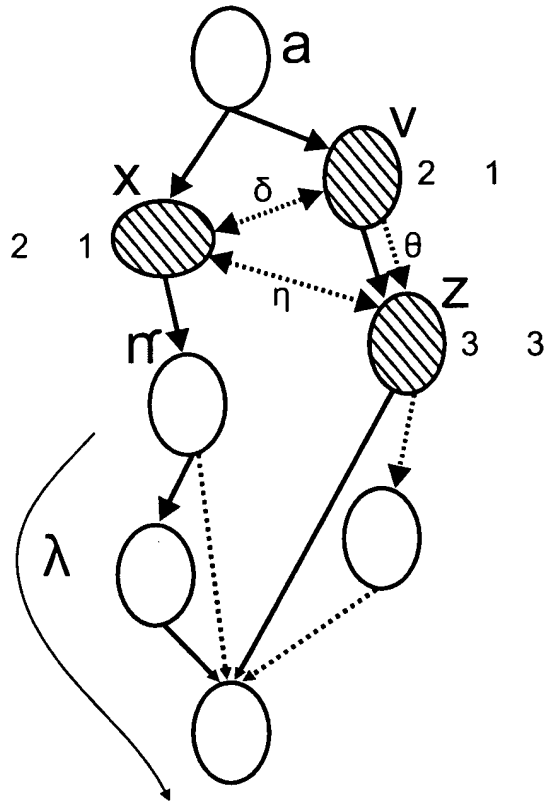


Fig. 29B

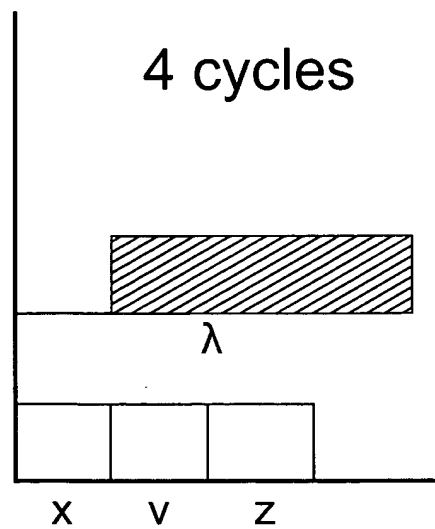
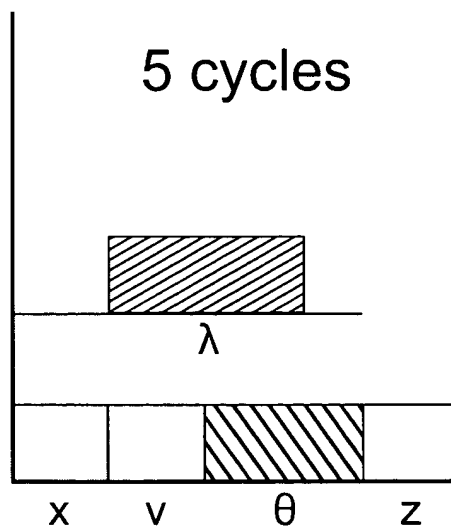
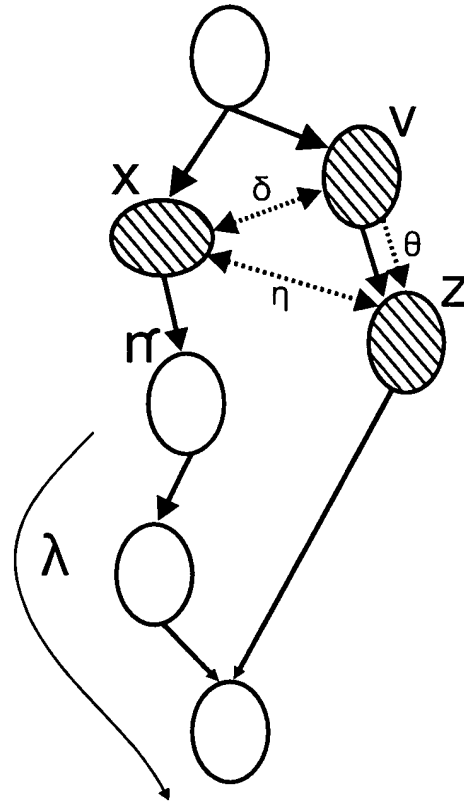


Fig. 30

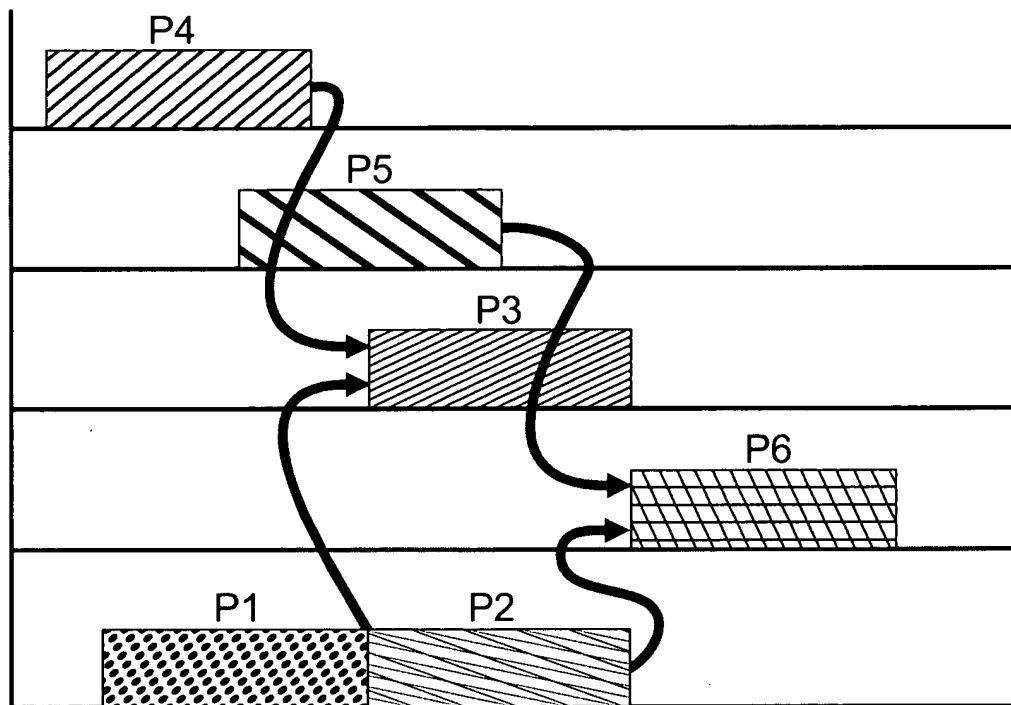


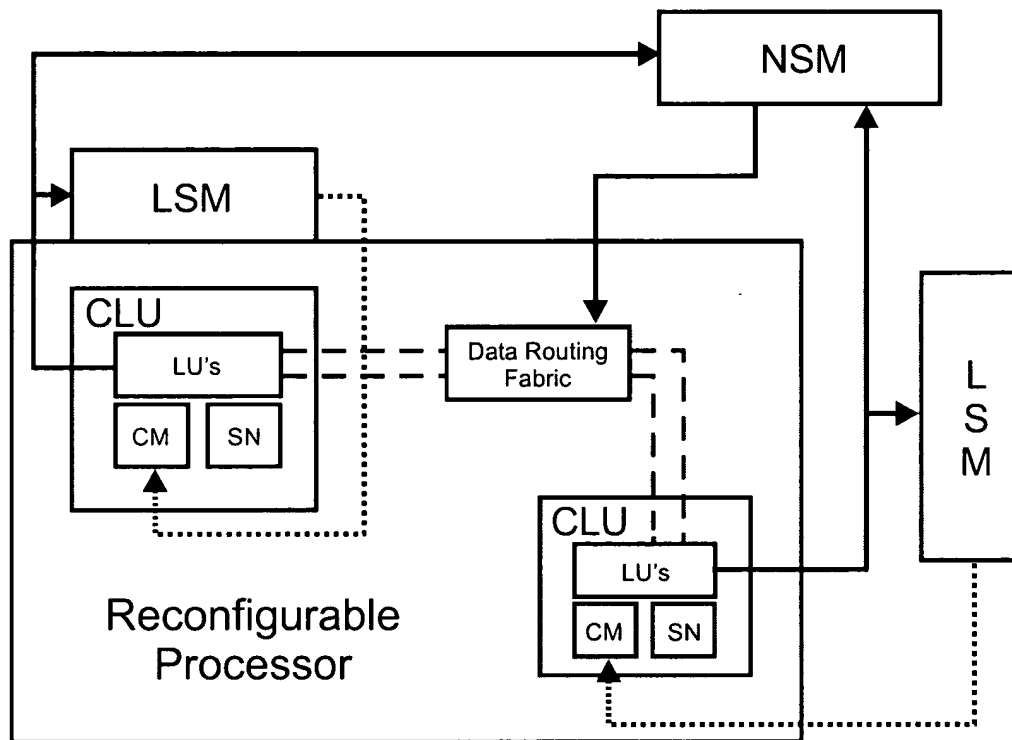
Fig. 31

	Expression α	Expression β	Expression θ	Expression Υ
Process A		0		
Process B		10		
.....				
.....				

	Expression α	Expression β	Expression θ	Expression Υ
Process A		30		
Process B		40		
.....				
.....				

↓
.....
and so on

Fig. 32



CLU=Configurable Logic Unit
LU=Logic Units
SN=Switching Network
CM=Configuration Memory
LSM=Logic Schedule Manager
NSM=Network Schedule Manager

Fig. 33

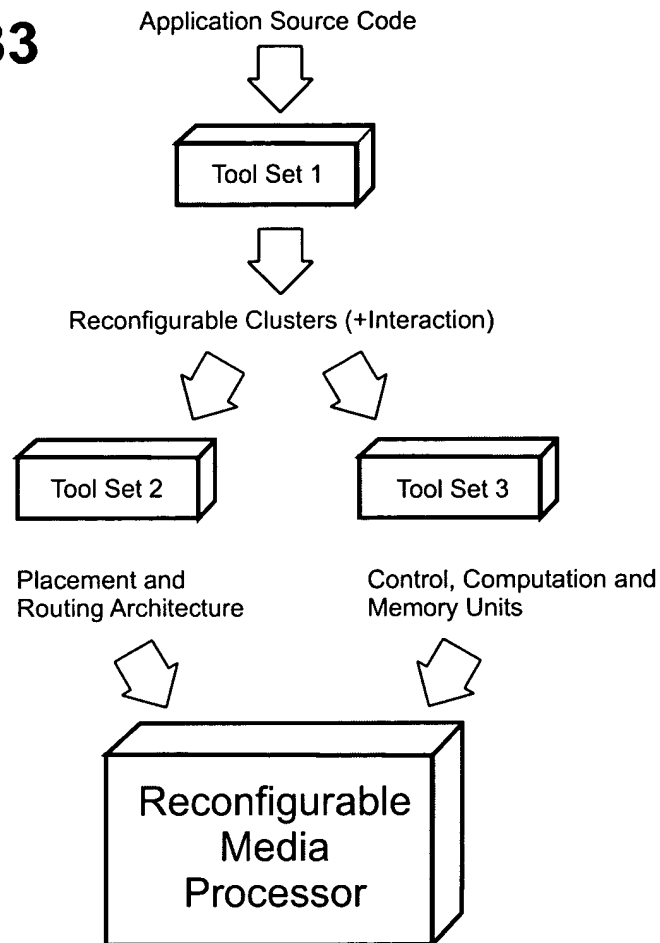


Fig. 34

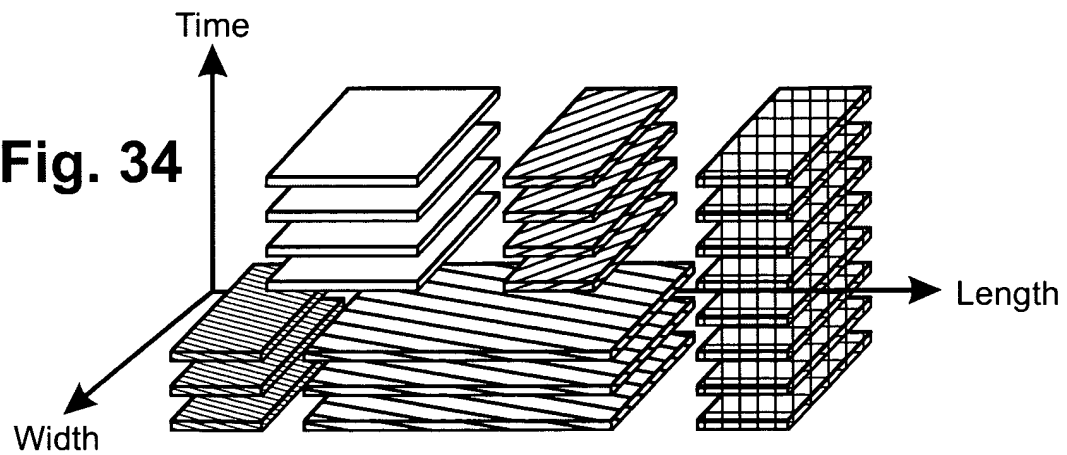


Fig. 35

Routing Architecture Overview

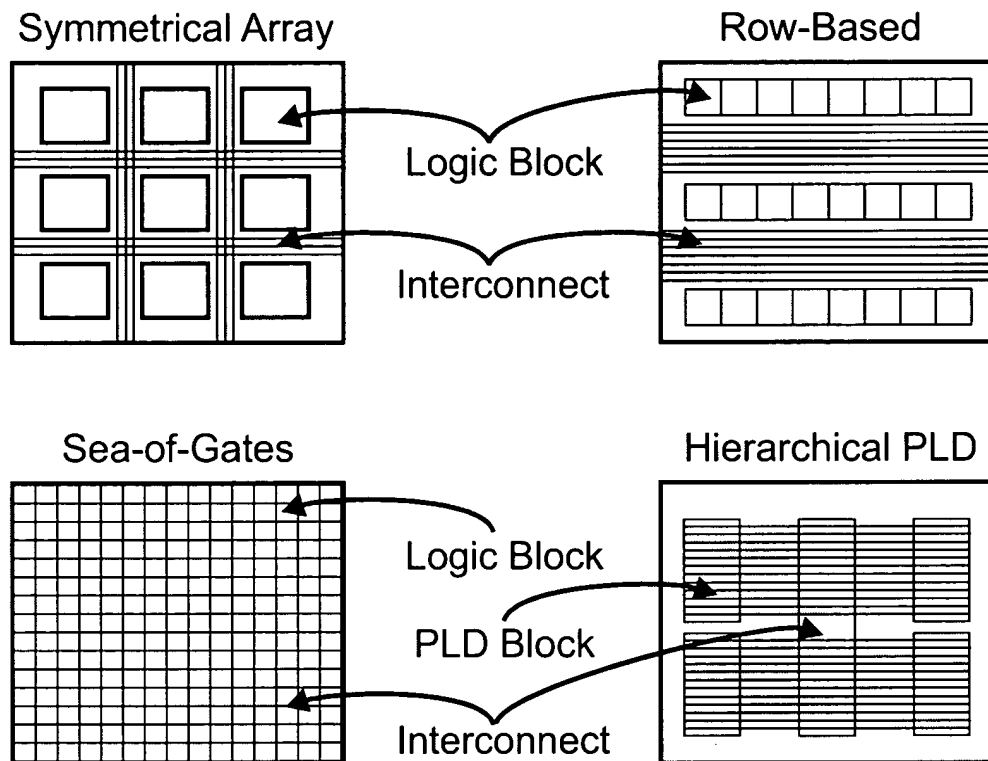


Fig. 36

Multiple vs. Single Building Block

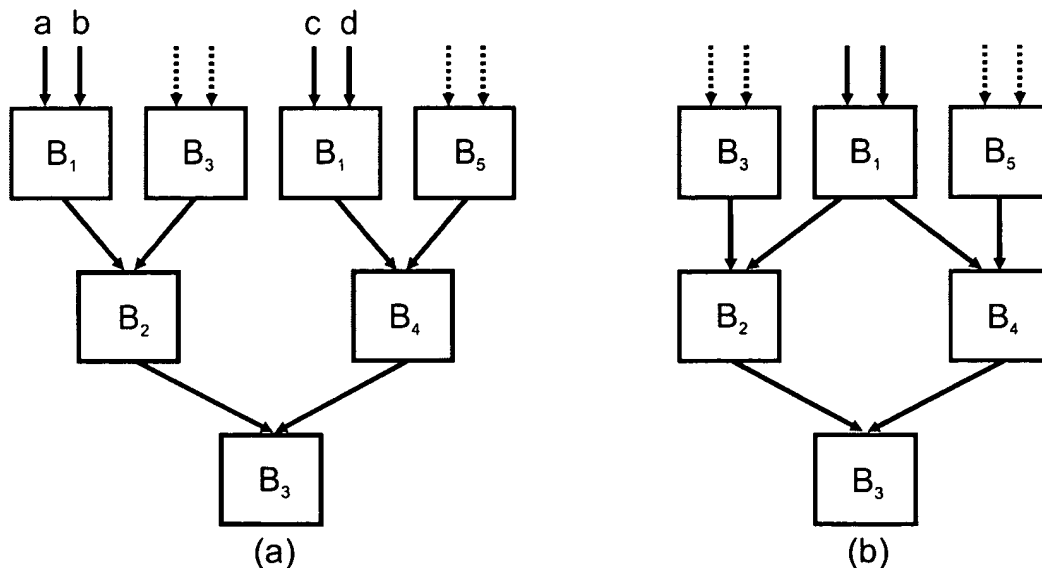


Fig. 37

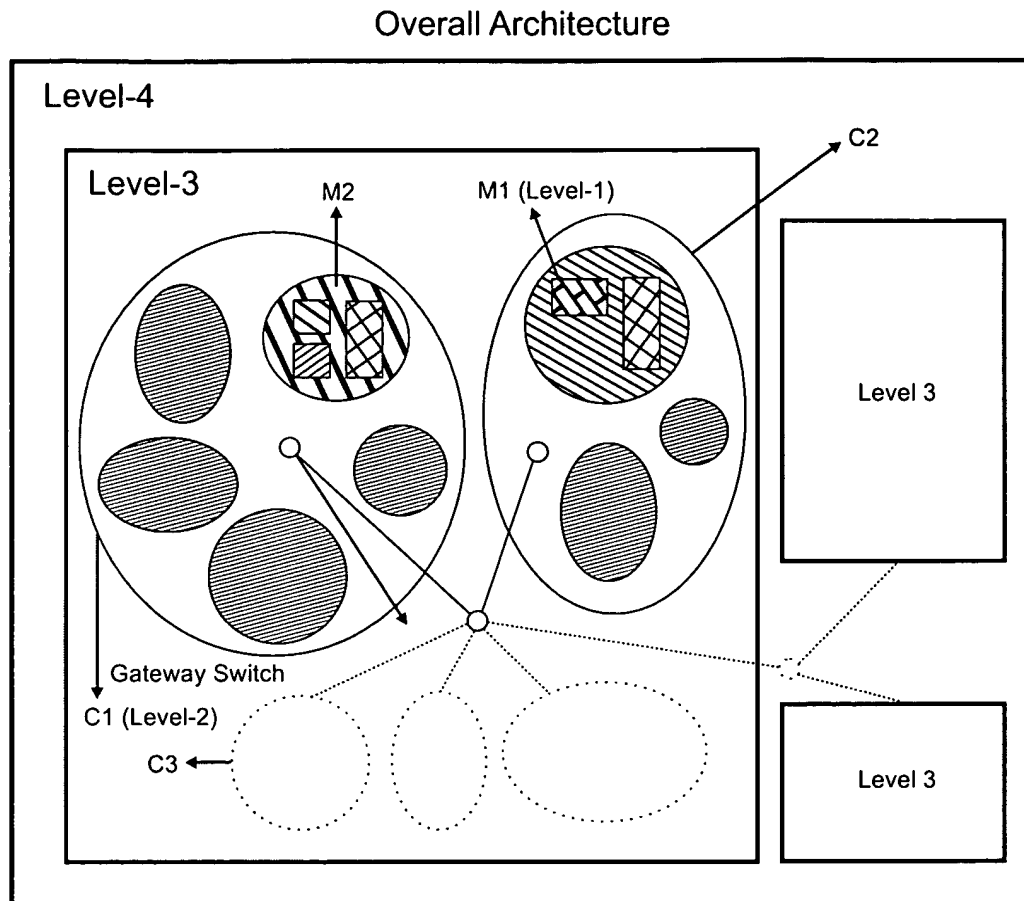


Fig. 38

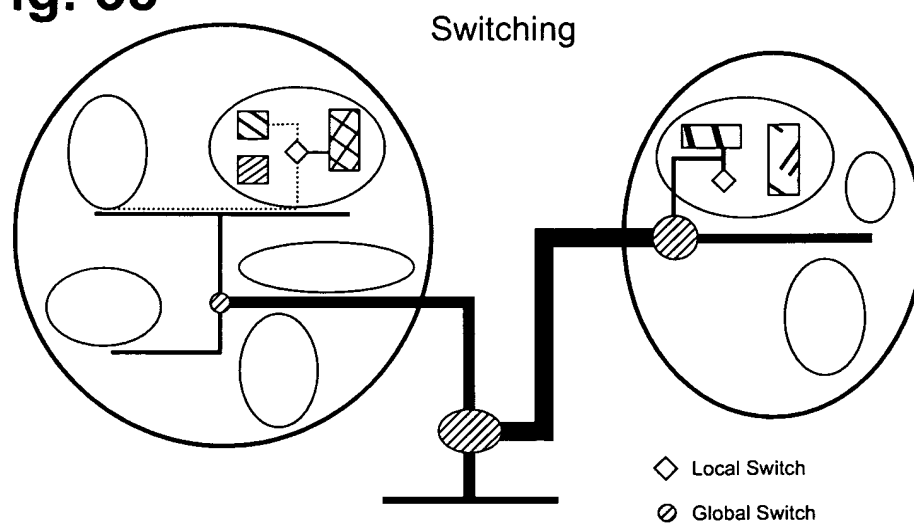


Fig. 39

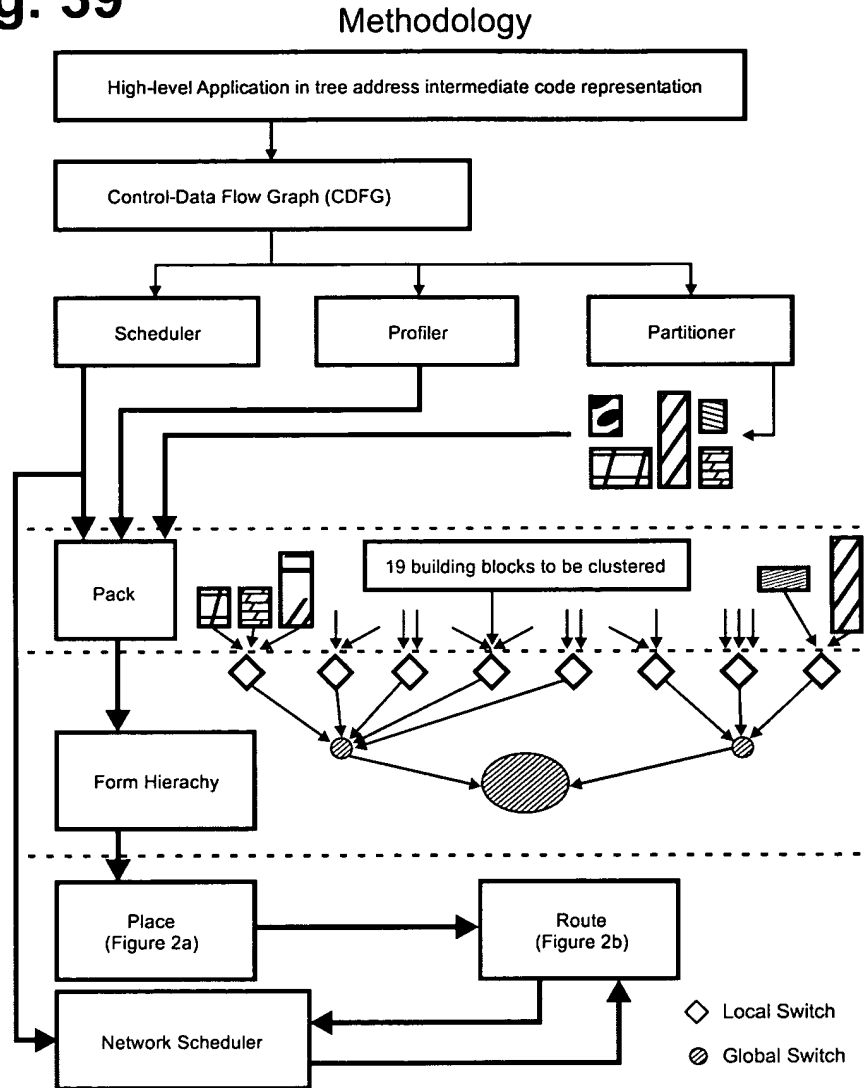


Fig. 40A

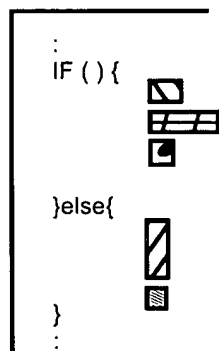


Fig. 40B

Control Flow Effect on Clusters

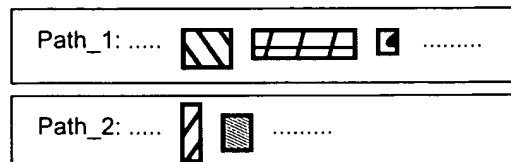


Fig. 41A

Cost Matrix

	A	B	C	D	E	F
A	0	X	X	X	X	X
B	5	0	X	X	X	X
C	6	0	0	X	X	X
D	4	3	7	0	X	X
E	1	4	1	0	0	X
F	3	0	4	5	3	0

Fig. 41B

Pre-Placement

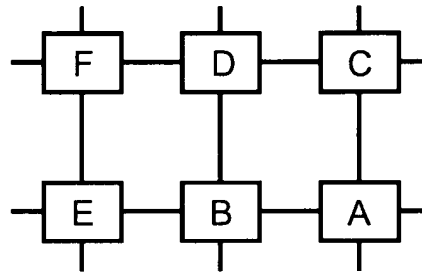


Fig. 42

Design Flow

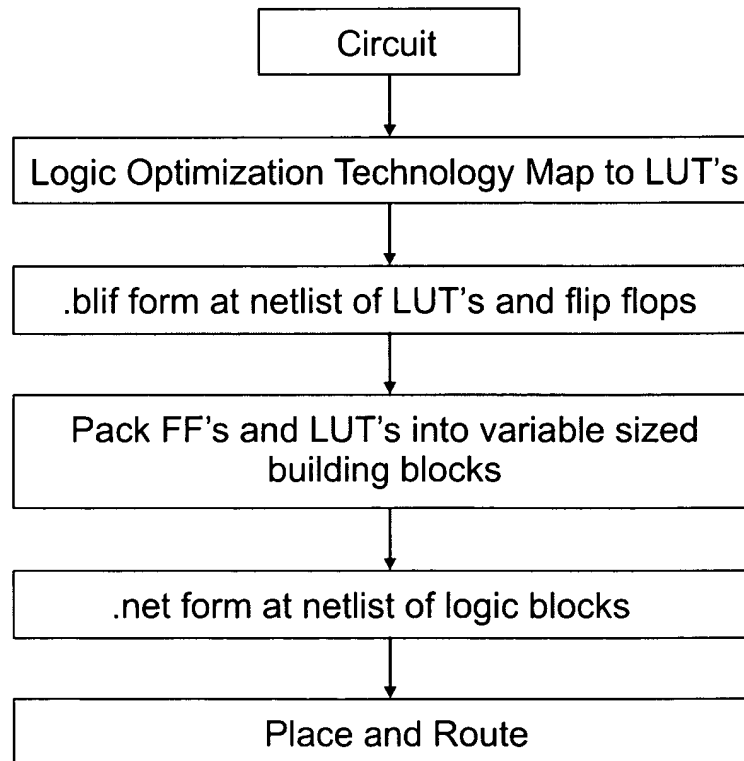
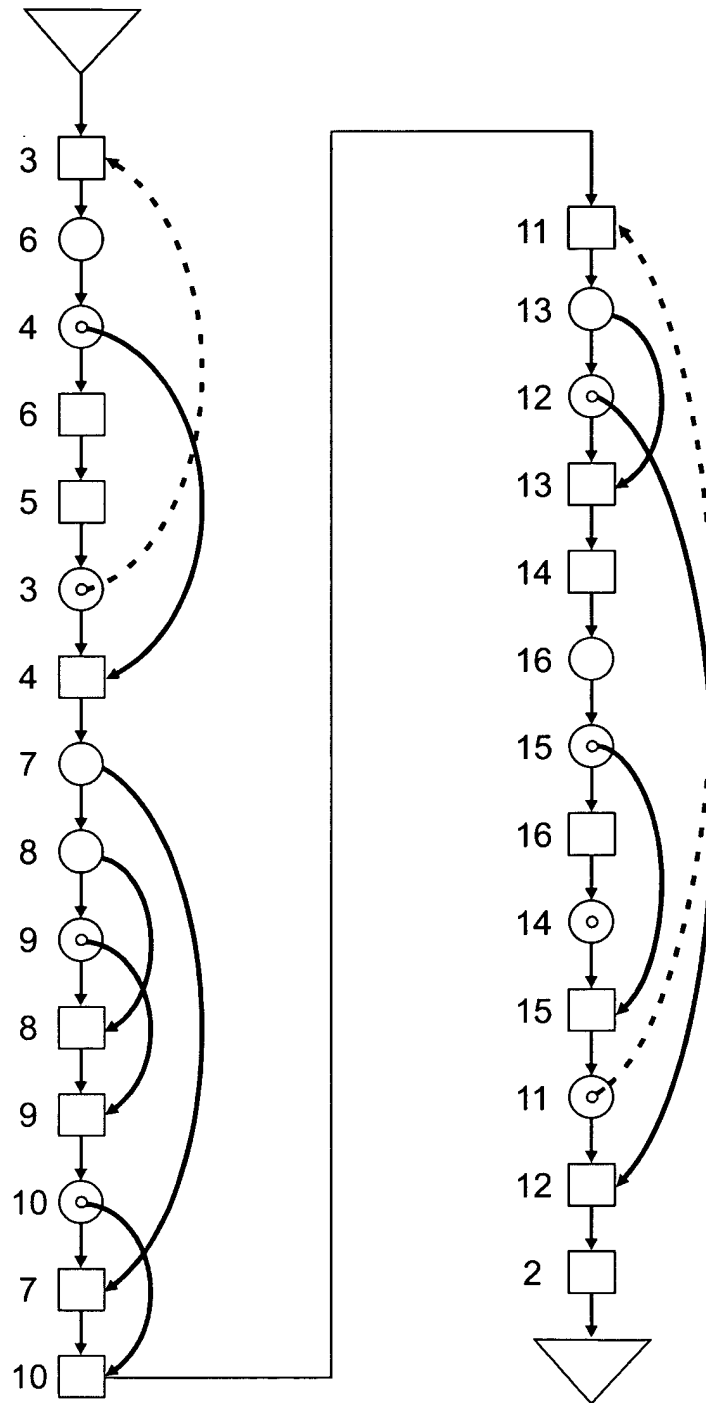


Fig. 43

Control Flow Linked List



Modified Structure Obtained From the Control Flow Linked List

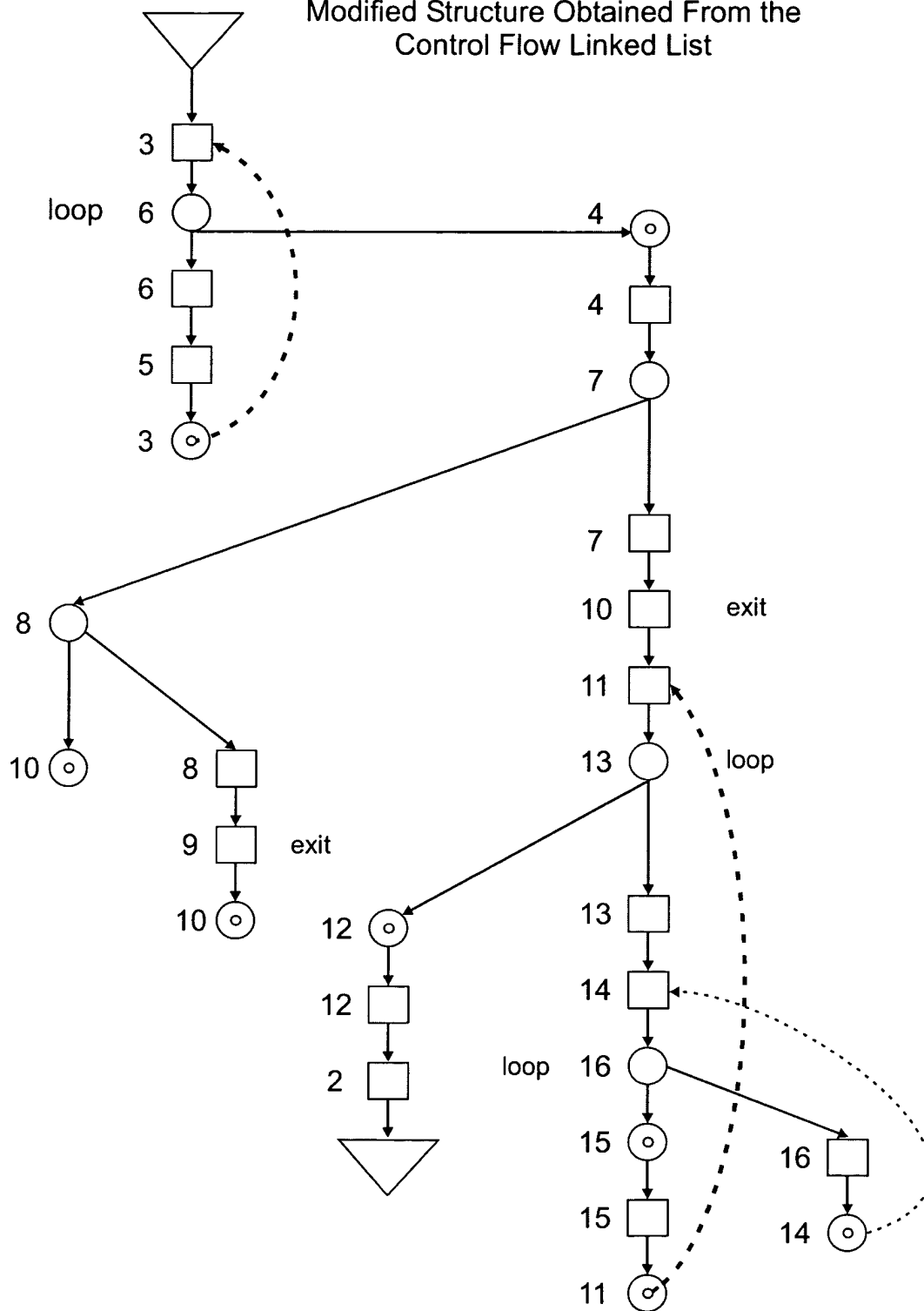


Fig. 45

Zones in the Modified Structure

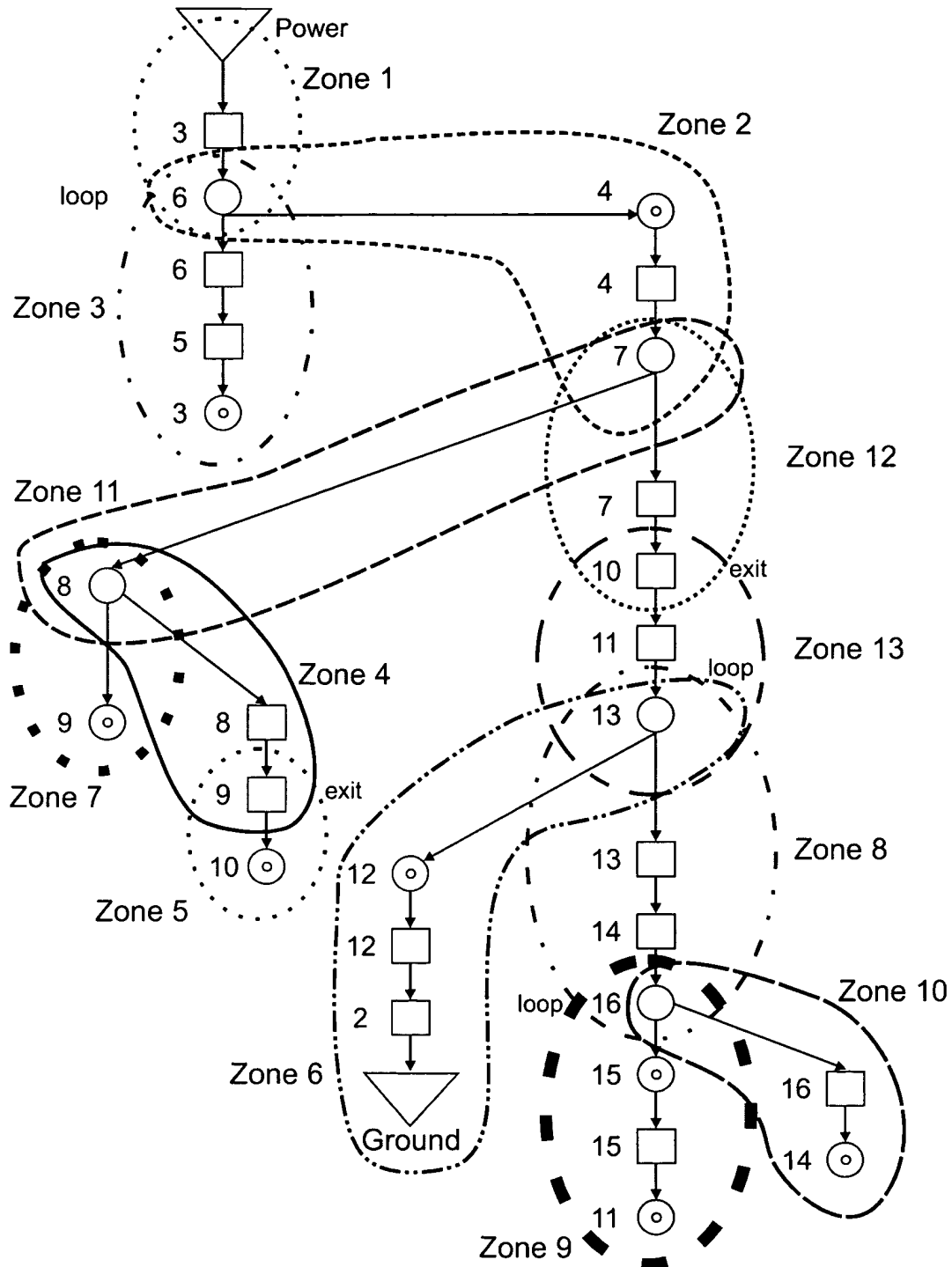


Fig. 46

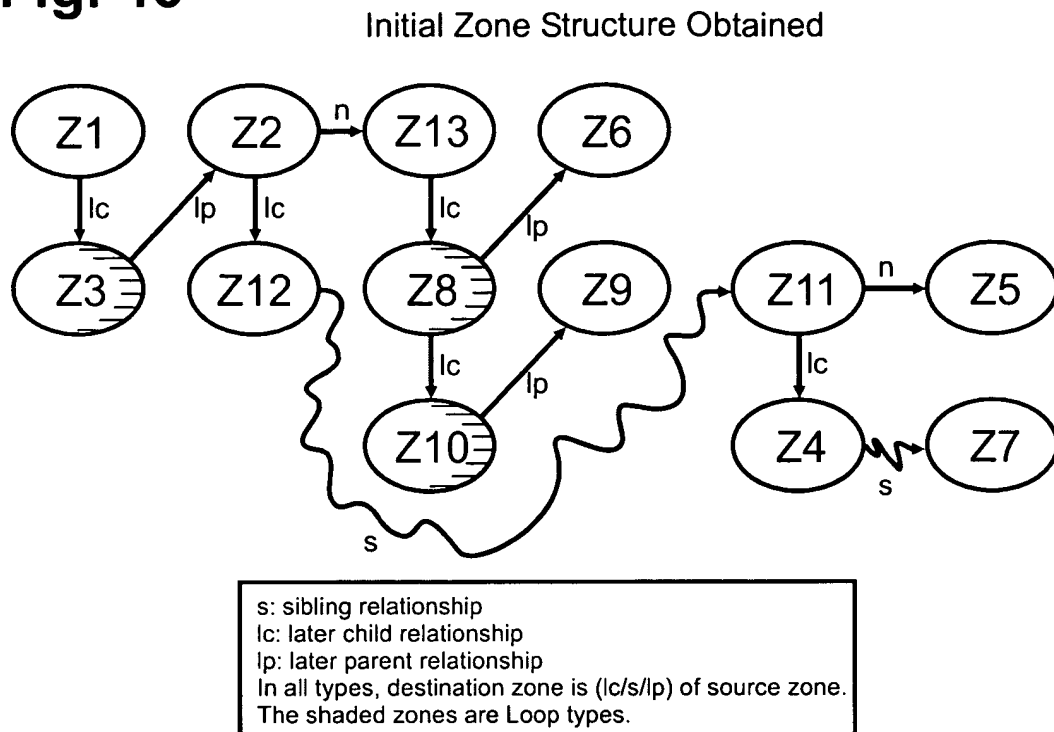


Fig. 47

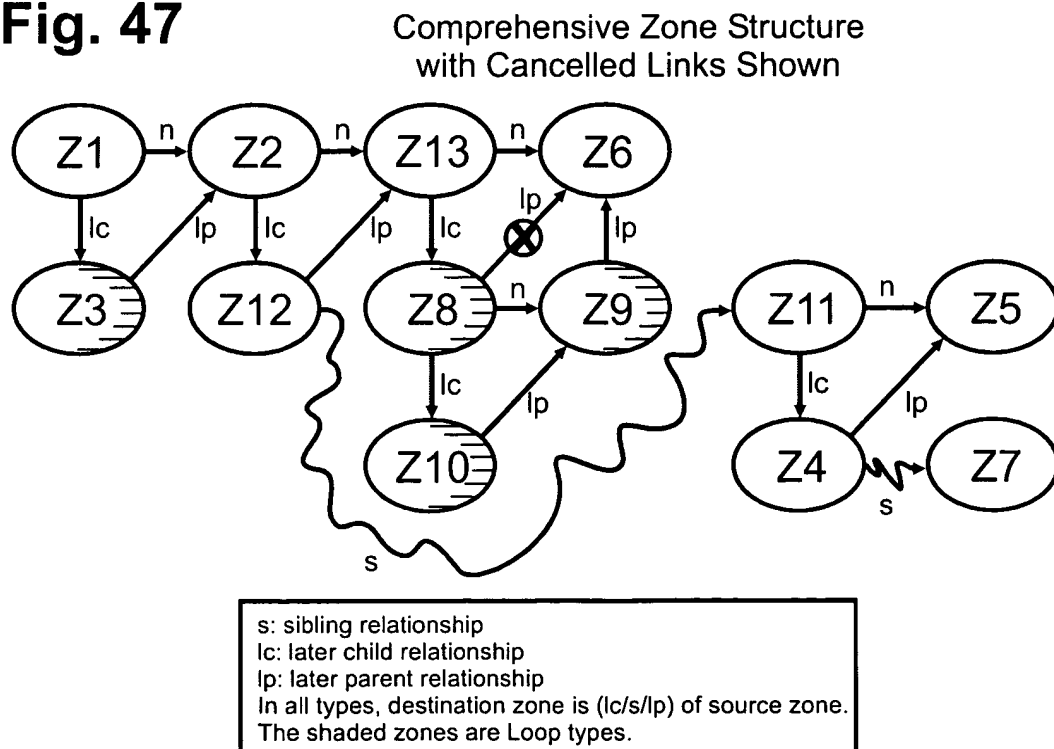
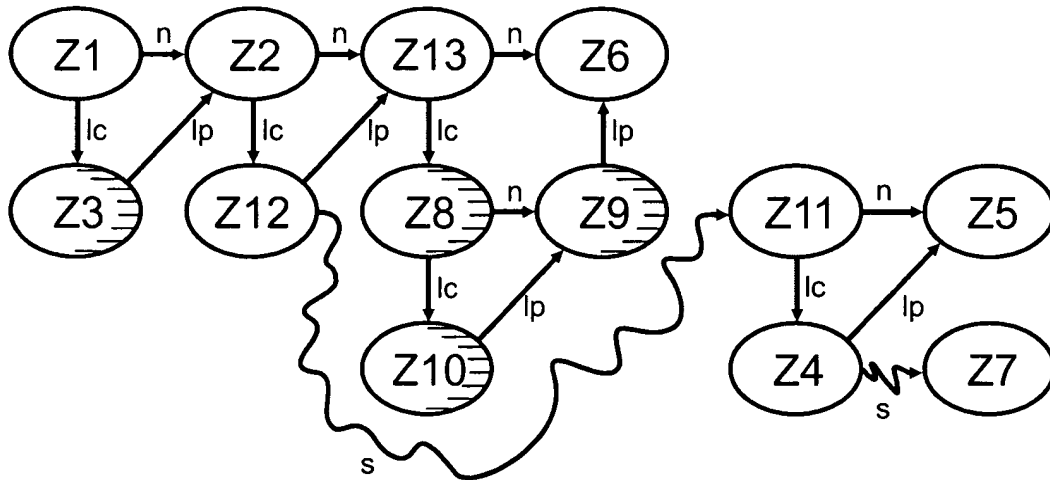


Fig. 48

Comprehensive Zone Structure
with Cancelled Links Removed



s: sibling relationship
lc: later child relationship
lp: later parent relationship
In all types, destination zone is (lc/s/lp) of source zone.
The shaded zones are Loop types.

Fig. 49

Sequentially Ordered Zones

